

REPORT OF THE STATE INSPECTOR OF MINES  
FOR THE YEAR 1907.

BY

JAMES EPPERSON.

OFFICE OF INSPECTOR OF MINES,  
INDIANAPOLIS, IND., February 29, 1908.

*Prof. W. S. Blatchley, State Geologist:*

Dear Sir—I have the honor to submit to you herewith my ninth annual report as Inspector of Mines, covering the calendar year of 1907, and being the Twenty-ninth Annual Report of this department and the seventeenth made to the Department of Geology and Natural Resources.

I trust it will receive your approval and be found worthy of consideration by the public.

JAMES EPPERSON,  
*Inspector of Mines.*

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# Twenty-ninth Annual Report of the Inspector of Mines for the State of Indiana.

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## COAL AND LABOR STATISTICS AND GENERAL INFORMATION RE- LATING TO THE MINING INDUSTRY OF INDIANA FOR THE YEAR ENDING DECEMBER 31, 1907.

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The following general subjects have been included or covered in this report, arranged and treated in the following order:

Coal Trade in 1907.

Coal and Labor Statistics.

Mine Casualties.

Legislation Enacted and Recommended Legislation.

Under the head of Coal Trade a general résumé of the coal business for the year is given. Under Coal and Labor Statistics we exhibit tables showing by counties and mines the total production of coal, the different grades of coal, the block and bituminous coal shown separately and the distribution of the product, number of employes, wages, number of mules, number of kegs of powder, average and comparative tables of wages and kegs of powder used, geological tables of new and abandoned mines and strikes. Under Mine Casualties tables are given showing the number of fatal, permanent, serious and minor accidents, causes of accidents, the number of dependents left at each death, the age and occupation of persons killed, the time lost by persons sustaining permanent or serious accidents, a comparative table by years of fatal accidents and accidents to mine property. Under Legislation Enacted we enumerate the different laws enacted in 1907, with comments as to the effect obtained by their passage and enforcement and the attitude of miners toward same. Under Recommended Legislation we advise such new laws as we think should be enacted and certain changes in those now on the statute books. The legislature of 1907 increased the force in this department two additional assistants. This much-needed increase in our force has enabled us to make inspections more complete and more frequent, to more thoroughly investigate accidents, to enforce the mining

laws more rigidly, and has been of great help in the general performance of the duties required of the department. Wellington O'Connor, of Terre Haute, Vigo County, and Albert A. Sams, of Chandler, Warrick County, were appointed April 11th, and their work of inspections, reports and enforcement of the mining laws has been entirely satisfactory to this office, and has met the approbation of the miners and operators and other persons concerned.

### SUMMARY.

Number of coal seams operated in the State.....	6
Number of coal producing counties .....	18
Number of counties having shipping mines.....	14
Number of new coal companies organized.....	6
Number of block coal mines .....	34
Number of bituminous mines .....	170
Number of new block coal mines opened.....	4
Number of new bituminous mines opened .....	9
Number of mines changing ownership .....	8
Number of bituminous mines abandoned .....	14
Number of block coal mines abandoned .....	2
Number of electric chain machine mines .....	51
Number of compressed air punching machine mines.....	12
Total number of machine mines.....	63
Number of hand mines.....	141
Total number of mines employing more than ten men.....	204
Number of pick miners .....	8934
Number of machine runners and helpers.....	881
Number of loaders .....	3632
Number of inside day and monthly men employed.....	3907
Number of outside day and monthly men employed.....	1655
Total number of mine employes.....	19,009
Number of mules used .....	1506
Number of kegs of powder used .....	476,692
Total number of days the mines have been operated.....	34,074
Tons hand mined block coal.....	730,426
Tons machine mined block coal.....	144,807
Total tons block coal .....	875,233
Number of tons hand mined bituminous coal .....	6,200,408
Number of tons machine mined bituminous coal .....	6,175,074
Total tons of bituminous coal .....	12,375,482
Total tons of all kinds of coal produced.....	13,250,715
Tons of coal shipped outside the State .....	6,138,339
Tons of coal consumed in Indiana .....	7,112,376
Total wages paid to block mine employes .....	\$1,230,199 23
Total wages paid to bituminous mine employes .....	\$10,487,623 31
Grand total wages paid to mine employes.....	\$11,717,822 54
Total amount of money expended on improvements.....	\$112,982 54
Number of fatal accidents .....	53

Number of permanent accidents .....	9
Number of serious accidents .....	271
Number of minor accidents .....	171
Total number of accidents to mine employes.....	504
Number of accidents to mine property.....	8

## GENERAL REVIEW OF COAL TRADE FOR 1907.

Conditions of mining and coal trade during the past year were exceptionally good. The production for the year was 12,375,482 tons of bituminous coal, an increase of 1,700,125 tons, or a fraction over 15.9 per cent over 1906, and 875,233 tons of block coal, an increase of 128,563 tons, or a fraction over 17 per cent in block coal over 1906. The total production for the State was 13,250,715 tons, a gain of 1,828,688 tons over 1906. Of this tonnage 7,112,376 tons was consumed in Indiana and 6,138,339 tons were shipped outside the State. The total wages reported from the bituminous mines was \$10,487,623.31, a cost of 84.7+ cents per ton of coal produced.

The total wages reported from the block coal field was \$1,230,199.23, or a cost in wages for production of \$1.40 per ton. Selling prices during a greater portion of the year were fair, ranging from a minimum of 88 cents to \$1.54 per ton f. o. b. cars at the mine for bituminous mine run coal. A fair average for the year would probably be \$1.20 per ton. The prices of block coal ranged from \$2.25 to \$3.00 per ton for screened coal f. o. b. cars at the mine, \$2.60 being a probable average for the year.

There are two important factors which, in addition to a strong demand for coal during a greater portion of the year, played an important part in the large increase in the output, viz., the car service on all the railroads was much better than in former years, and strikes and labor troubles of consequence were comparatively few. These conditions enabled the mines to be operated more days than in former years, resulting not only in an increase in production but a large increase in the total wages earned by mine employes. This report shows a total of 19,009 employes in 1907, a decrease of 453, or a fraction over 2.3 per cent under 1906, and an aggregate of \$11,717,822.54 in wages, or \$616.43 per mine employe, an increase of \$107.05, or a fraction over 24 per cent over the average wages in 1906, showing a higher average earning per employe than ever before in the history of the State.

Considering all of the above conditions and figures, i. e., the strong demand for coal, the large increase in tonnage, the cost per

ton for wages, the average selling price and the extraordinary high average earnings per mine employe, both miners and operators evidently enjoyed a more prosperous year in 1907 than they have experienced for several preceding years.

### LEGISLATION ENACTED IN 1907.

The legislature adjourning March 8, 1907, enacted the following new mining laws and amendments, all of which were signed by the Governor and went into effect April 11:

Section 1. A statute regulating the use of high explosives, dynamite, dynamite caps, etc., in coal mines.

Section 2. A statute regulating the preparation of shots, drilling holes, charging shots, opening powder kegs, preparing drill bits and prohibiting the use of high explosives in conjunction with black powder.

Section 3. Prohibiting drilling past the cutting or loose end, except in the block coal field.

Section 4. Establishing prima facie evidence in case of violations.

Section 5. Regulating the manner of lighting shots.

Section 6. Pertaining to stairways in escape shafts.

Section 7. Regulating the number of persons permitted to ride on cages.

Section 8. Prohibiting the use of inflammable materials in tamping shots.

Section 9. Relating to employment of shot-firers.

Section 10. Relating to Inspector of Mines assistants, duties, pay, etc.

Section 11. Police power conferred on Inspector of Mines and assistants.

Section 12. Relating to sprinkling roads.

Section 13. Abolishing the issuance of certificates of service.

Section 14. Relating to penalties for violation of statute.

Section 15. Relating to Inspector's failure to perform duties, penalty, number of inspections to be made each year, etc.

Sections 16, 17, 18, 20. Relating to examinations for eligibles and appointment as Inspector of Mines or assistants.

Section 19. Relating to Assistant Inspector of Mines.

Section 21. Defining provisions of laws on coal mining.

Several of the above laws were most strenuously opposed by the miners, chief among which was the statute prohibiting shots from being drilled past the cutting or loose end and limiting the size of

drill bits to two and one-half inches in diameter. Notwithstanding the fact that these laws were enacted for the protection and safety of miners, and that under former conditions fatal and serious accidents resulting from smoke explosions and windy or blown out shots were of daily occurrence, the feeling against their enforcement was extremely bitter. It may be said on behalf of the miners that the changes made in mining conditions under the new laws were so radical as compared with former conditions they could hardly be expected to accept the changes without opposition until they had become accustomed to them. There are a large per cent of the miners in Indiana who are non-English speaking people, who with many of the English speaking did not understand or appreciate the full importance of the changed laws nor that they were the beneficiaries. For these reasons I instructed each of my assistants on their first round of inspections after the new laws went into effect not to file prosecutions but to instruct miners as to the new laws and to warn them that the same would be strictly enforced in the future. I regret to say in this connection that the officials of the miners' organization in District No. 11, from the District President down to the members of the executive board and a few mine superintendents and mine operators (the latter were but few), men who were in position to know and appreciate the full importance attached to the new laws enacted, and who should have aided us in securing a peaceful conformance to the statute on the part of the mine employes, used their efforts in the opposite direction and encouraged the opposition in every way possible. This action, coming from such sources, naturally served to increase the bitter feeling.

A special convention was called in District No. 11 on the 8th of July (which was attended by a delegation from District No. 8) and a committee selected to wait on Governor Hanly with a view to secure his aid in the abrogation of the objectionable mining laws. This committee met the Governor on July 15th, President Van Horn acting as spokesman for the miners of District No. 11. Among the many allegations made in explaining their reasons for wishing the annulment of these laws was the fact that more blown-out and windy shots, smoke explosions and accidents to mine employes had occurred since the enforcement of the new laws than before the changes were made; that more powder was required to blast the coal, and that the earning capacity of the miners had been reduced at least one dollar per day. These statements were made without foundation or evidence of any kind tending to show their truthfulness, and were made in some instances by persons



who, to say the least, were in position to know the true conditions existing, and who also knew they were not true. A reference to our tables of accidents, tables of powder and the average wage table included in this report discloses the fact that since the enforcement of these laws, beginning in April, not a single accident from windy and blown-out shots or smoke explosions occurred; also that more tons of coal per keg of powder were mined in 1907 than in 1906, and that the total average earnings per pick miner in District No. 11 in 1907 was \$627.55, as against \$495.92 in 1906, which shows a difference of \$131.63, or a fraction over 26 per cent gain per each pick miner in 1907 over 1906. The total average earnings of the block coal pick miners for 1907 was \$606.64, as against \$484.85 in 1906, a difference of \$121.79, or a fraction over 25 per cent gain per each miner in 1907 over 1906. The Governor took no action in the matter other than to inform the committee he had no authority to change the laws, and that the same must be conformed to. Our efforts to secure a conformance to law on the part of the miners, mine bosses, mine superintendents and mine operators without resorting to the courts met with such poor results we were compelled to begin making prosecutions during the month of May.

The following exhibits the number of prosecutions made by this department during the year, and the different causes thereof:

Companies for failure to provide sign boards pointing to manway.....	1
Engineers for serving without certificate .....	1
Mine bosses for failure to have break-throughs made .....	19
Mine bosses for failure to report accidents .....	25
Mine bosses for failure to provide trappers at mine door.....	1
Mine bosses for failure to conform to orders given by Inspector of Mines .....	5
Mine bosses for failure to split air currents .....	3
Companies for failure to provide fire bosses .....	10
Companies for failure to provide lamps on shaft bottom .....	4
Superintendents for failure to provide places of refuge on haulage roads .....	1
Mine bosses for failure to visit working places as required by law.....	4
Companies for failure to provide hospital supplies.....	2
Blacksmiths for violating statute relating to size of drill bits.....	8
Miners for opening powder kegs with picks.....	37
Miners for preparing shots over the maximum thickness provided by law .....	6
Miners for tamping shots with drill dust.....	11
Miners for drilling past cutting or loose end.....	115
Total prosecutions made .....	253

In each of the above cases, with one exception, a decision was rendered in favor of the State, fines and costs assessed and collected. The exception referred to was the prosecution of the Lower Vein Coal Company for failure to provide a fire boss. The company stood trial, and Mr. Clement Richards, general manager, while admitting the fact that he had operated his mine for about three months without a fire boss, claimed he had tried to employ one (three miners were burned by fire damp during this time), yet he was able to procure one within a few hours after charges were filed against him. Justice of the Peace Brown, before whom the cause was tried, decided in favor of the company.

### RECOMMENDED LEGISLATION.

On the matter of future mine legislation we recommend the enactment of the following laws and amendments:

1. Making provision for the better protection of drivers. Providing that each driver shall be furnished with a portable seat which can be attached to either end of a mine car, and prohibiting drivers, miners or other persons from riding on loaded mine cars in any other manner than that which shall be provided by law.

2. Amending the present statute relating to the use of explosives. Providing that all powder kegs, cans or packages containing powder or other explosives shall be stored in boxes, which shall be kept securely closed at all times except when miners are preparing cartridges or charging blasts, and such powder boxes shall not be kept closer than within one hundred feet of any working face.

3. Providing that the statute relating to break-throughs shall be amended to read as follows, to wit: "Break-throughs or air ways shall be made in each pillar between rooms and entries. Such break-throughs must be made not less than six feet wide, unless the conditions of roof, etc., are such as will not permit this width. It shall be the duty of the mine boss to see that at all times the last break-through between rooms or entries is clear of powder boxes, kegs, timbers, slate or other debris."

4. Amending the present statute relating to the examination of mines for fire damp. Providing that the time elapsing from the time a fire boss has examined a working place and the regular hour for the mine to commence work shall not be more than four hours. The fire boss shall keep a record of all the working places examined by him, which shall be entered in a book kept for that purpose, the

said book to be open for the inspection of the Inspector of Mines and the miners working in such mine.

5. Amending the present statute relating to oils used for illuminating purposes in coal mines. Providing a smoke test and equipping the office of supervisors of oils with appliances for making such tests.

### LABOR CONDITIONS.

Labor conditions in 1907, taking the State as a whole, were generally satisfactory to all concerned. No strikes of serious consequence occurred, and notwithstanding the fact the year was prolific of many local disputes between operators and miners, resulting in miners being idle, they usually involved only the employees at individual mines and covered periods ranging from but two to ten days, and even these short stoppages of work by reason of strikes were of less frequent occurrence than in former years. It might be well before discussing this subject at length to call attention to a certain factor which has had much to do with the elimination of strikes in coal mines, as well as curtailing the time of their duration. The factor referred to is a clause in the Terre Haute agreement jointly entered into by and between the United Mine Workers of America, District 11, and the Indiana Bituminous Coal Operators' Association and signed by the officials of both organizations. This clause or contract reads as follows: "It is agreed that when miners come out or stay out of the mine for the purpose of redressing a grievance, real or supposed, thus entirely or partially shutting down mine or mines contrary to agreement, each employe so ceasing or refraining from work shall be fined in the sum of one dollar per day during such shut down. The fine thus assessed shall be deducted from each person so offending through the payroll, and this agreement is the company's authority for making such deduction. All money collected as fines shall be divided equally between District 11 U. M. W. of A. and the Indiana Bituminous Coal Operators' Association." Prior to 1906 mines were shut down by employes with impunity, whether their cause was just or not, and the result was a large loss in tonnage produced, days worked and wages earned by employes.

This fact probably renders the above contract one of the most effective ever entered into between the two associations, and the results obtained by a strict enforcement of the same have undoubtedly been gratifying to the conservative miners as well as the

operators. This opinion is confirmed by an increase in tonnage produced, an increase in the number of days worked and a large increase in the average yearly earnings of mine employes as indicated by this report.

The following are some of the strikes occurring and a brief statement as to their cause and the manner in which each was adjusted.

During the month of February a strike of three days occurred at the Shirley Hill No. 2 mine, Sullivan County, over the discharge of an employe. The strike was in violation of contract and was settled in favor of the company, and each employe fined one dollar per day for the time the mine was idle.

The employes of the Queen mine, Greene County, were called on strike in February by the state president over the refusal of the company to blow the mine whistle at night as provided by contract. After six days' idleness the matter was adjusted in favor of the miners.

About March 1 the employes at the Fauvre No. 2 mine, Vigo County, went on strike over the company's refusal to make provisions for lowering or hoisting the shot firers into or out of the mine. The matter was adjusted after about eight weeks' idleness, the company and W. D. Van Horn, state president of the U. M. W. of A., District 11, agreeing to permit the night watchman to hoist the shot firers.

During the month of April the drivers at the Forrest Mine, Vigo County, brought on a strike of two days over a division of work on idle days. The strike was in violation of contract, and the matter was settled in favor of the company. The drivers were fined two dollars each.

During the month of June a dispute arose between Vandalia No. 316 employes and the company over the payment for the blackjack which underlies the coal seam. A strike of about one month resulted, and the matter was finally adjusted in favor of the company.

During the same month a dispute over the employment of a driver and a blacksmith came up between the employes of the Citizens Mine, Sullivan County, and the mine management, which resulted in a strike of about seven weeks. The matter was amicably settled.

The employes in the Muren Mine, Pike County, in July, demanded the discharge of the mine boss, and on the company's

refusal to conform to the request went on strike. After being idle four months the matter was settled in favor of the miners by the company acceding to the demand.

During the month of July the miners at the Victor Mine went on strike, refusing to handle a certain amount of falling slate without pay. The strike lasted five weeks and was finally settled in favor of the company.

August 5th the miners at the Vandalia No. 67 Mine, Vigo County, went on strike "ostensibly" on account of the poor condition of the ventilation in the mine. A request was made of this department to inspect the mine and the same was made on the 6th by Assistant Inspector O'Connor, and the mine was found in conformance to statute in all respects, the ventilation especially good. This strike was in violation of the contract and the mine resumed operation after an idleness of two days. The miners were fined two dollars each. This money was deducted from the payroll as per contract and twenty-nine of the miners refused to accept payment on pay day and sued the company for payment in full. The matter was referred to P. H. Penna, Secretary of the Indiana Bituminous Coal Operators' Association, and W. D. Van Horn, President of District No. 11, U. M. W. of A., and the executive committees of the two associations, the operators contending for an enforcement of contract and the miners' officials contending for an abrogation of the fine. After much controversy and failure on part of the two committees to agree, the matter was finally referred to National President Mitchell, who confirmed the contract and sustained the position of the company in collecting the fine, and informed the Vandalia Coal Company that they would be reimbursed from the funds in the treasury organization of District 11, U. M. W. of A., for any expense caused by the lawsuits, and that District 11 would collect such expense from the members who brought the suits. Notwithstanding this decision the members bringing suits refused to recede from the position they had taken and persisted in pushing their cause. Last account arrangements were on foot to expel them from the organization.

About the middle of September the miners of the Lattas Creek Mine, Greene County, went on strike refusing to handle a certain amount of falling draw slate without pay. This strike was also in violation of contract and lasted about thirty days. The cause was finally settled in favor of the company and the miners were fined one dollar each.

In October the miners at the Chandler Mine, in Warrick County, went on strike against the fire boss for holding two positions, i. e., he was mining coal during the day and serving as fire boss in the morning before the miners entered the mine. After twenty days' idleness the matter was settled by the company employing a fire boss.

On October 10th (pay day), on account of the stringency in money matters, the Vandalia Coal Company proffered to pay their employes partially in currency and partially in clearing-house checks. The employes refused to accept the checks and went on strike, demanding payment in full in United States currency. Some of the miners were idle six days before the company could meet their demands. On the 25th, following, the same conditions obtained at all of the Dering Mines, a greater portion of the Vandalia Mines and all of the Consolidated Indiana Mines, the miners refusing to accept part of their pay in checks, and a majority of the mines of each company were idle about five or six days.

In the latter part of November the miners of the Summit No. 2 Mine, in Greene County, went on strike and demanded the discharge of the mine superintendent. The company refused to grant the demand and work was resumed after an idleness of eight days, the miners each being fined eight dollars for violation of contract, some of whom sued the company for payment in full.

TABLE SHOWING BY MONTHS AND BY COUNTIES THE NUMBER OF TONS MINED AND WAGES PAID TO EMPLOYEES FOR THE YEAR 1907 AT MINES EMPLOYING MORE THAN TEN MEN.

MONTHS.	CLAY COUNTY.		DAVIESS COUNTY.		FOUNTAIN COUNTY.	
	Tonnage.	Wages.	Tonnage.	Wages.	Tonnage.	Wages.
January.....	109,435	\$125,716 06	7,505	\$7,743 10	7,174	\$4,897 39
February.....	114,272	125,929 01	6,367	10,114 40	4,010	3,433 60
March.....	96,176	14,694 62	5,929	7,063 72	1,908	2,234 40
April.....	81,501	96,849 65	6,662	8,268 23	2,740	3,122 01
May.....	91,094	94,787 48	4,855	5,588 95	2,498	2,442 32
June.....	87,500	112,447 64	2,209	2,968 47	2,488	2,682 05
July.....	100,607	119,007 38	1,556	2,348 07	2,469	3,518 17
August.....	112,308	125,495 95	5,848	2,061 20	3,455	2,825 23
September.....	113,744	142,747 58	10,610	8,787 18	2,940	3,077 52
October.....	124,594	136,668 60	11,250	9,629 40	3,277	4,192 75
November.....	106,841	129,744 42	17,334	10,131 63	3,503	3,597 48
December.....	92,800	114,669 49	7,280	8,405 35	3,637	3,710 96
Total.....	1,230,872	\$1,338,727 88	87,385	\$83,109 70	40,099	\$39,733 97

TABLE SHOWING THE NUMBER OF TONS MINED—Continued.

MONTH.	GIBSON COUNTY.		GREENE COUNTY.		KNOX COUNTY.	
	Tonnage.	Wages.	Tonnage.	Wages.	Tonnage.	Wages.
January.....	14,162	\$12,478 08	257,555	\$218,452 02	35,776	\$34,002 12
February.....	19,501	18,049 39	210,278	203,778 13	32,368	31,128 01
March.....	17,928	15,897 00	203,271	174,367 89	35,153	26,371 36
April.....	18,598	15,512 65	205,810	163,531 19	17,671	27,631 90
May.....	19,107	17,315 56	204,681	158,755 15	21,948	25,644 95
June.....	17,035	14,908 77	199,334	144,833 88	33,155	22,047 63
July.....	19,416	18,493 33	179,115	142,038 28	28,043	20,467 71
August.....	20,690	19,873 94	208,130	170,052 00	21,994	22,987 89
September.....	16,788	16,299 45	195,097	172,014 89	30,000	21,576 35
October.....	24,605	22,110 06	263,938	219,049 53	42,819	29,035 20
November.....	21,647	21,736 79	247,650	212,429 72	39,684	24,505 20
December.....	17,911	16,924 15	239,549	209,848 20	26,471	28,921 89
Total.....	227,688	\$209,599 17	2,704,408	\$2,189,153 98	375,082	\$314,819 71

	PARKE COUNTY.		PERRY COUNTY.		PIKE COUNTY.	
	Tonnage.	Wages.	Tonnage.	Wages.	Tonnage.	Wages.
January.....	64,817	\$70,897 93	643	\$699 15	53,703	\$43,631 04
February.....	49,835	59,189 69	706	766 01	48,333	35,125 65
March.....	48,483	48,020 22	834	780 04	36,647	32,943 07
April.....	33,812	49,033 62	825	902 96	32,756	22,791 01
May.....	54,986	47,726 32	1,035	1,140 48	36,750	30,688 17
June.....	28,496	36,570 47	1,440	1,625 00	28,010	29,171 97
July.....	35,228	50,685 43	1,221	1,100 09	26,264	32,362 54
August.....	69,813	63,801 45	926	1,117 03	26,361	40,440 66
September.....	65,750	72,048 79	574	627 35	37,106	42,830 41
October.....	77,874	83,559 17	578	694 71	37,480	34,250 17
November.....	69,389	83,336 79	284	401 28	33,971	34,007 36
December.....	56,325	64,633 01	511	673 07	30,551	20,300 00
Total.....	654,508	\$729,493 89	9,567	\$10,527 17	427,932	\$398,442 05

	SULLIVAN COUNTY.		VANDERSBURGH COUNTY.		VERMILION COUNTY.	
	Tonnage.	Wages.	Tonnage.	Wages.	Tonnage.	Wages.
January.....	281,863	\$243,310 07	31,899	\$29,858 15	123,887	\$128,538 25
February.....	219,787	198,788 28	32,256	24,478 85	151,164	122,000 43
March.....	173,159	149,465 19	20,923	24,768 10	150,657	102,962 43
April.....	211,854	171,343 25	23,451	21,603 36	102,862	91,823 33
May.....	201,806	164,775 12	18,791	11,916 72	102,516	95,128 34
June.....	172,491	146,064 81	16,422	18,263 23	122,359	93,842 57
July.....	182,215	146,800 52	16,811	17,517 19	114,761	96,194 81
August.....	193,368	181,459 94	22,139	20,458 94	120,200	101,356 56
September.....	224,457	210,286 25	26,542	25,288 32	127,933	105,203 30
October.....	290,643	241,570 80	35,952	45,302 97	145,736	127,132 73
November.....	290,139	234,818 67	36,064	27,246 63	104,442	95,222 58
December.....	218,549	175,311 64	29,990	33,586 09	118,574	108,126 47
Total.....	2,660,333	\$2,263,994 54	311,240	\$300,288 45	1,485,091	\$1,267,531 80

TABLE SHOWING THE NUMBER OF TONS MINED—Continued.

MONTH.	VIGO COUNTY.		WARRICK COUNTY.	
	Tonnage.	Wages.	Tonnage.	Wages.
January.....	324,384	\$288,384 95	39,238	\$23,794 76
February.....	183,325	264,424 98	31,906	31,465 19
March.....	161,720	138,683 29	37,461	18,722 47
April.....	264,362	138,702 62	36,218	23,568 14
May.....	167,428	144,929 45	31,222	26,209 43
June.....	163,724	140,075 57	30,496	23,475 54
July.....	157,582	142,098 76	35,839	26,167 31
August.....	185,824	160,146 00	33,671	24,702 23
September.....	188,566	165,267 13	40,349	29,978 22
October.....	223,659	263,865 51	51,188	29,801 93
November.....	364,155	206,441 32	36,868	30,801 35
December.....	207,150	193,346 70	50,375	37,346 88
Total.....	2,581,379	\$2,246,366 78	454,831	\$326,033 45

## NEW DEVELOPMENT.

The amount of capital invested in the development of new mining properties in 1907, as compared with the six preceding years, was exceedingly small. The total development for the year consists of eight shipping mines and five local mines, distributed in the different localities as follows: Clay County, four block and hand mines, two of which are shipping and two local mines. Daviess County, one bituminous hand mine (local). Greene County, one bituminous hand mine. Knox County, one bituminous, compressed air, punching machine mine (shipping). Parke County, two (local) block coal, hand mines. Pike County, one (shipping) bituminous electric machine mine. Sullivan County, one (shipping) bituminous electric machine mine. Vermillion, one (shipping) bituminous, compressed air punching machine mine and Vigo County, one (shipping) bituminous, hand mine. The following table exhibits the names of the companies owning these mines, the names of the mines, the geological number of coal seam mined, thickness of seam in feet and inches, depth and size of hoisting shaft, character of coal, i. e., block or bituminous, whether hand or machine mine, location of mine as to nearest town or city, the railroads on which the shipping mines are located and the date of the first shipment of coal:



## TABLE OF NEW MINES.

## CLAY COUNTY.

NAME OF COMPANY.	Name of Mine.	Geolog. No. of Seam.	Thick- ness of Seam.	Charac- ter of Coal.	Depth of Shaft.	Size of Shaft	Pick or Machine.	Date of First Shipment.	Location of Mine.	Railroad.
Nick Schefferman.....	Schefferman.....	III	4'6"	Block	60	7x14	Pick.....	Sept. 1, 1907	1½ miles So. Knightsville.....	Wagon mine.
Hall & Zimmerman.....	Wizard.....	III	3'6"	Block..	42	8x18	Pick.....	Jan. 1, 1907	2 miles N. E. Brazil.....	C. & I.
Crawford Coal Co.....	Crawford No. 10.....	IV	4'6"	Block..	128	8x20	Pick.....	June 3, 1907	4 miles N. W. Brazil.....	C. & E. I.
Sam Pyria.....	Pyria.....	IV	4'	Block..	40	8x16	Pick.....	Jan. 1, 1907	2 miles S. Brazil.....	Local.

## DAVISS COUNTY.

Wm. Winterbottom.....	Winterbottom.....	IV	4'	Bitum..	40	8x12	Pick.....	.....	2½ miles S. Washington.....	Local.
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## GREENE COUNTY.

Mooney, Donnelly & Keers.....	Mooney.....	IV	5'	Bitum..	50	8x16	Pick.....	Nov. 1, 1907	3 miles So. Linton.....	I. & V.
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## KNOX COUNTY.

Tecumseh Coal Co.....	Tecumseh.....	V	6'6"	Bitum..	156	9x16	Comp. air. Machine.	July 1, 1907	1 mile E. Bicknell.....	I. & V.
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## PARKE COUNTY.

James Moore.....	Moore.....	IV	4'	Block..	24	.....	Pick.....	.....	3 miles N. E. Tangier.....	Local.
William Moore.....	Moore.....	IV	5'	Block..	Drift.	.....	Pick.....	.....	4 miles N. E. Tangier.....	Local.

## PIKE COUNTY.

W. S. Little Coal Co.....	Blackburn No. 2...	V	7'	Bitum..	80	9x16	Electric Machine.	Jan. 9, 1907	Rogers.....	E. & I.
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## SULLIVAN COUNTY.

Shirley Hill Coal Co.....	Shirley Hill No. 3..	VI	5'6"	Bitum..	100	8x16	Machine..	Aug. —, 1907	2 miles W. Dugger.....	C. & E. I.
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## VERMILLION COUNTY.

Clinton Coal Co.....	Crown Hill No. 3..	VI	6'	Bitum..	340	19x9-6"	Comp. air machine.	Jan. 1, 1907	2 miles S. W. Clinton.....	C. & E. I.
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## VIGO COUNTY.

Coal Bluff Mining Co.....	Minsball.....	III	5'	Bitum..	180	9x20	Pick.....	Oct. 4, 1907	½ mile E. Fontanet.....	Big Four.
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Note 1. The Dering Coal Company, in March, abandoned the Workings in the No. VII coal seam, which they had exhausted in their No. 8 Mine, Vermillion County. The hoisting shaft was sunk during the summer months to a lower seam, claimed to be No. IV, and shipment of coal resumed in September. This seam lies at a depth of . . . . feet below No. VII and carries from 4½ to 6 feet in thickness and has all the characteristics of No. IV. The coal is of excellent quality.

Note 2. On April 1st the Oak Hill Coal Company abandoned the workings in the No. VII coal seam, which they had worked out at their Prince Mine, Vermillion County. The hoisting shaft was sunk during the fall months to the No. VI and shipment of coal resumed in December. This seam has an average of 6 feet in thickness and lies at a depth of 330 feet from the surface.

Note 3. The Carlisle Coal and Clay Company (early in the year) abandoned the No. VI coal seam at their Viola Mine, located at Carlisle, Sullivan County, and sunk the hoisting shaft down to No. V. Shipment of coal was resumed in the latter part of December. No. V carries 5 feet in thickness and lies 84 feet below No. VI, which was so badly broken with faults and horsebacks as to render it unprofitable to mine.

### CHANGES IN OWNERSHIP.

Changes in the ownership and operation of mining properties were made during the year 1907 as follows:

The Clover Leaf Mine, Sullivan County, formerly owned by the Clover Leaf Coal Company, was purchased by the Shirley Hill Coal Company, who assumed control and operation of the property April 16th.

The Hartwell Mines, Nos. 1 and 2, formerly owned by the Patoka Valley Coal Company, Pike County, were transferred to the Binghampton Trust Company, who assumed control of the properties in August.

The Keystone Mine, formerly owned by the A. H. Whitset Coal Company, Sullivan County, went into the hands of a receiver in July and has not been in operation since that time.

The Chicago No. 7 Mine, owned by the Raccoon Coal and Mining Company, went into the hands of a receiver in August and was idle the remainder of the year.

The Cummins Mine, Sullivan County, owned by the Indiana Southern Coal Company, changed hands in January, being trans.

ferred to Ralph Sharp, who operated the mine during the entire year.

The Massey Coal Company was reorganized during the year and the property is now operated under the name of the Peacock Coal and Mining Company.

The Fort Branch Mine, Gibson County, was purchased by William Jackson, who assumed control and operation of the mine in June.

### ABANDONED MINES.

Sixteen mines were abandoned during the year, one of which was block and fifteen were bituminous mines. The block coal mine was located in Clay County and the fifteen bituminous mines were located in the different counties as follows: Clay County, two, both hand mines. Greene County, one machine and one hand mine. Knox County, one machine and one hand mine. Parke County, one hand mine. Sullivan County, two machine mines. Vermillion County, four hand mines. Vigo County, one hand mine and Warrick County, one machine mine. The following table shows the names of the mines abandoned, the names of the different companies owning them, the date of abandonment, the county and railroad on which the mines are located.

TABLE.

NAME OF COMPANY.	Name of Mine.	Date of Abandonment.	County.	Railroad.
Vandalia Coal Co.	Vandalia No. 63.	Jan. 15, 1907	Clay.	Vandalia.
Deering Coal Co.	Deering No. 15.	Jan. 30, 1907	Vermillion.	C. & E. I.
Vandalia Coal Co.	Vandalia No. 68.	Feb. 15, 1907	Vigo.	Vandalia.
Consolidated Indiana Coal Co.	Consolidated No. 34.	Feb. —, 1907	Sullivan.	E. & T. H.
J. Wooley Coal Co.	Big Vein No. 3.	Feb. —, 1907	Warrick.	Southern.
J. S. Tiley.	Sturm.	Feb. —, 1907	Fountain.	Clover Leaf.
Vandalia Coal Co.	Vandalia No. 40.	March 3, 1907	Knox.	I. & V.
Vandalia Coal Co.	Vandalia No. 316.	March 15, 1907	Parke.	Vandalia.
Southern Indiana Coal Co.	Mtland.	March 15, 1907	Greene.	So. Indiana.
Deering Coal Co.	Deering No. 8.	March 15, 1907	Vermillion.	C. & E. I.
Oak Hill Coal Co.	Prince.	April 1, 1907	Vermillion.	C. & E. I.
Stunkard Coal Co.	Stunkard.	April 1, 1907	Clay.	Local.
Shirley Hill Coal Co.	Victoria.	April —, 1907	Greene.	Monon.
Dan Davis Coal Co.	World's Fair No. 2.	May 29, 1907	Clay.	Vandalia.
Prospect Hill Coal Co.	Prospect Hill.	July —, 1907	Knox.	I. & V.
Shirley Hill Coal Co.	Shirley Hill No. 2.	Nov. 8, 1907	Sullivan.	I. & V.

TABLE

*Showing by Counties the Name of Mine, Number of Screened, Slack, Nut and Mine Run Coal, Total Tons of All Grades of Coal Produced, and the Distribution Thereof, the Production of Block and Bituminous Coal, Each Being Shown Separately, as is the Machine and Pick or Hand Mined Coal.*

## BLOCK COAL MACHINE MINES.

## CLAY COUNTY.

NAME OF MINE.	MACHINE MINED.				PICK MINED.				DISTRIBUTION.		WAGES PAID.			
	Tons of screened coal.	Tons of slack and nut.	Tons of mine run.	Total tons of all kinds of coal produced.	Tons of screened coal.	Tons of slack and nut.	Tons of mine run.	Total tons of all kinds of coal produced.	Indiana.	Other states.	To miners.	To inside day men.	To outside day men.	Total wages.
Monarch.....			2,534	2,534			4,922	4,922	7,456		\$9,051 68	\$6,681 37	\$2,082 01	\$17,795 06
Total.....			2,534	2,534			4,922	4,922	7,456		\$9,031 68	\$6,681 37	\$2,082 01	\$17,795 06

## PARKE COUNTY.

Mary.....	60,630	9,356		69,986	3,982	959		4,941	5,011	69,916	\$53,461 85	\$25,707 14	\$9,411 86	\$88,583 85
Total.....	60,630	9,356		69,986	3,982	959		4,911	5,011	69,916	\$53,461 85	\$25,707 14	\$9,411 86	\$88,583 85

## VIGO COUNTY.

Domestic Block.....	46,016	6,073		52,089	6,303	4,032		10,335	19,536	42,888	\$55,110 98	\$21,599 16	\$7,517 68	\$84,127 82
Total.....	46,016	6,073		52,089	6,303	4,032		10,335	19,536	42,888	\$55,010 98	\$21,599 16	\$7,517 68	\$84,127 82

# BLOCK HAND OR PICK MINES.

CLAY COUNTY.

NAME OF MINE.	MACHINE MINED.				PICK MINED.				DISTRIBUTION.		WAGES PAID.			
	Tons of screened coal.	Tons of slack and nut.	Tons of mine run.	Total tons of all kinds of coal produced.	Tons of screened coal.	Tons of slack and	Tons of mine run.	Total tons of all kinds of coal produced.	Indiana.	Other states.	To miners.	To inside day men.	To outside day men.	Total wages.
Stunkard.....							1,489	1,489	1,489		\$1,237 01	\$480 24	\$220 00	\$1,937 25
Brazil No. 1.....					10,796	2,155		12,951	8,815	4,136	12,337 03	5,744 33	5,644 13	23,725 49
Brazil No. 4.....					42,340	8,650		50,990	8,516	42,474	48,491 46	14,312 04	8,488 14	71,291 64
Brazil No. 8.....					2,140	425		2,565	352	2,213	2,297 41	1,043 22	936 96	4,277 59
Brazil No. 7.....					20,974	4,195		25,169	12,436	12,733	24,862 66	6,683 97	5,900 74	37,447 37
Continental No. 1.							12,552	12,552	12,552		11,780 79	4,001 78	2,070 47	17,853 04
Rebstock.....					32,691	9,020		41,711	21,144	20,567	34,611 01	13,461 12	5,267 18	53,339 31
Superior No. 4.....					38,018	9,250	602	47,870	47,870		44,118 78	14,870 75	7,435 70	66,425 23
Crawford No. 8.....					10,970	3,080		14,050	5,410	8,640	11,913 65	4,583 99	3,199 80	19,697 44
Crawford No. 9.....					36,910	9,000		45,910	25,818	20,092	39,577 95	17,939 12	7,073 61	64,590 68
Glenn No. 1.....					21,593	4,940		26,533	5,706	20,827	22,856 35	6,510 30	2,976 65	32,343 30
Plymouth No. 2.....					19,832	4,255		24,087	530	23,557	22,351 95	5,740 50	2,814 20	30,906 65
Wizard.....					17,325	1,805	264	19,394	10,830	8,564	21,203 90	3,714 10	3,763 04	28,681 04
Indiana Block.....					7,092	767	3,456	11,315	3,858	7,457	9,474 95	3,571 59	2,934 82	15,981,36
Worlds Fair No. 2.....					1,604	220		1,824	1,824		1,824 54	467 60	902 64	3,194 78
Crawford No. 2.....					25,747	5,910	33	31,690	12,432	19,258	31,168 68	12,834 03	5,645 15	49,647 86
Harrison No. 4.....					11,754	3,510		15,264	12,569	2,695	13,281 20	2,440 00	1,440 10	17,161 30
Vandalia No. 50.....					17,332	6,086		23,418	22,616	802	20,908 51	7,548 66	3,698 32	32,155 49
Eureka No. 5.....					36,201	7,890	86	44,257	28,334	15,923	37,986 55	10,188 20	7,070 35	55,245 10
Crawford No. 6.....					40,234	10,500		50,734	15,220	35,514	46,212 41	16,617 70	6,079 76	68,909 87
Treager.....					8,910	1,459	205	10,574	2,984	7,590	8,776 64	1,270 54	662 50	10,709 68
Progressive.....					11,647	817	1,742	14,206	12,542	1,658	14,573 07	4,540 43	4,943 00	24,056 50
Crawford No. 4.....	Idle													
Total.....					414,200	93,924	20,429	528,553	273,853	254,700	\$481,846 50	\$158,564 21	\$89,167 26	\$729,577 97

GENERAL TABLE OF PRODUCTION AND WAGES.

## BLOCK HAND OR PICK MINES—Continued.

## PARKE COUNTY.

NAME OF MINE.	MACHINE MINE.				PICK MINED.				DISTRIBUTION.		WAGES PAID.			
	Tons of screened coal.	Ton of slack and nut.	Tons of mine run.	Total tons of all kinds of coal produced.	Tons of screened coal.	Tons of slack and nut.	Tons of mine run.	Total tons of all kinds of coal produced.	Indiana.	Other states.	To miners.	To inside day men.	To outside day men.	Total wages.
Brazil No. 9.....					33,735	6,855		40,590	16,820	23,770	\$39,030 86	\$14,390 54	\$7,295 91	\$60,717 31
Brazil No. 12.....					6,075	1,215		7,290	1,184	6,106	7,504 66	4,378 84	2,473 39	14,356 89
Superior No. 1.....					16,557	3,850	85	20,492		20,492	16,833 64	6,912 39	3,665 93	27,411 96
Superior No. 2.....					25,267	6,140	123	31,530		31,530	30,740 53	12,617 69	6,568 83	49,927 05
Superior No. 3.....					33,837	8,340		42,177		42,177	37,987 01	12,559 78	6,371 02	56,917 81
Superior No. 5.....					38,294	9,320		47,614		47,614	51,309 41	15,718 82	7,593 28	74,621 51
Total.....					153,765	35,720	208	189,693	18,004	171,689	\$133,406 11	\$66,578 06	\$33,968 36	\$233,952 53

## VIGO COUNTY.

Plymouth No. 1.....					9,487	2,693		12,180	8,732	3,448	\$12,547 05	\$8,874 50	\$4,740 45	\$26,162 00
Total.....					9,487	2,693		12,180	8,732	3,448	\$12,547 05	\$8,874 50	\$4,740 45	\$26,162 00

## RECAPITULATION.

Total pick mined block coal.....					577,452	132,337	20,637	730,426	300,569	429,837	\$677,799 66	\$234,016 77	\$127,876 07	\$1,039,692 50
Total machine mined block coal.....	106,646	15,429	2,534	124,609	10,285	4,991	4,922	20,198	32,003	112,804	117,507 51	53,987 67	19,011 55	190,506 73
Total block coal..	106,646	15,429	2,534	124,609	587,737	137,328	25,559	750,624	332,592	542,641	\$795,307 17	\$288,004 44	\$146,887 62	\$1,230,199 23

# BITUMINOUS MACHINE MINES.

## CLAY COUNTY

NAME OF MINE.	MACHINE MINED.				PICK MINED.				DISTRIBUTION.		WAGES PAID.			
	Tons of screened coal.	Tons of slack and nut.	Tons of mine run	Total tons of all kinds of coal produced.	Tons of screened coal.	Tons of slack and nut.	Tons of mine run.	Total tons of all kinds of coal produced.	Indiana.	Other states.	To miners.	To inside day men.	To outside day men.	Total wages.
Gifford No. 1.....	13,775	1,216	.....	14,991	13,168	5,215	.....	18,383	11,121	22,243	\$25,579 63	\$14,912 88	\$5,135 51	\$46,628 02
Gifford No. 2.....	18,073	2,947	.....	21,020	9,225	5,696	.....	14,921	11,980	23,961	21,818 58	12,612 01	5,377 06	39,807 65
Lewis.....	17,081	25,391	18,321	60,793	.....	.....	.....	.....	49,695	11,098	24,344 46	11,664 60	10,560 64	46,569 70
Vivian No. 2.....	20,568	10,384	48,003	78,955	3,466	1,517	5,640	10,623	64,250	25,308	40,992 47	18,489 19	9,106 15	68,587 81
Gold Knob.....	21,719	11,984	2,488	36,191	5,749	3,119	527	9,395	38,437	7,179	19,437 18	14,320 01	8,499 09	42,256 28
Total.....	91,216	51,922	68,812	211,950	31,608	15,547	6,167	53,322	175,483	89,789	\$132,172 32	\$71,998 69	\$39,678 45	\$243,849 46

## GREENE COUNTY.

Island Valley No. 4...	42,210	22,397	50,086	114,693	122	66	94	282	74,788	40,187	\$53,392 46	\$16,115 68	\$8,198 75	\$77,706 89
Black Creek.....	47,972	24,603	7,067	79,642	48,489	26,099	6,622	81,210	100,224	60,628	90,483 89	28,855 68	10,383 11	129,722 68
Glenburn.....	3,574	2,040	1,633	7,297	12,171	6,446	4,016	22,633	18,920	11,010	17,527 00	6,236 38	3,194 25	26,957 63
Vandalia No. 2.....	.....	.....	80,541	80,541	.....	.....	118,420	118,420	192,440	6,521	113,518 38	41,167 33	11,013 30	165,699 01
Vandalia No. 5.....	55,654	29,222	12,914	97,790	47,806	25,337	11,010	84,153	150,274	31,669	108,453 13	35,826 50	15,865 74	160,145 37
Vandalia No. 8.....	62,361	35,180	70,265	167,806	8,030	4,465	9,338	21,833	180,960	8,679	99,745 61	39,602 47	11,374 63	147,722 71
Vandalia No. 9.....	45,245	21,779	54,907	121,931	10,998	5,255	12,629	28,882	144,650	6,163	84,895 51	25,783 04	9,479 60	120,158 15
Vandalia No. 21.....	46,062	27,663	44,019	117,744	.....	.....	.....	.....	116,807	937	58,912 48	12,573 41	10,328 07	81,813 96
Gilmour.....	.....	.....	101,497	101,497	.....	.....	2,182	2,391	.....	101,497	63,528 00	24,611 00	7,752 00	95,891 00
Hoosier No. 1.....	1,292	644	7,174	9,110	.....	209	.....	.....	11,501	.....	6,150 08	2,730 95	2,118 66	10,999 69
Lattas Creek.....	101,298	116,642	73,938	291,878	46,179	.....	25,165	71,344	.....	363,222	201,249 33	62,523 89	20,167 38	283,940 60
Summitt No. 2.....	75,426	35,866	82,891	194,203	.....	.....	.....	.....	177,456	16,747	89,178 08	42,917 10	13,307 01	145,402 19
Green Valley.....	31,461	18,975	44,723	95,159	.....	.....	.....	.....	70,696	24,463	48,004 94	14,108 05	8,091 85	70,204 84
North West.....	45,498	27,151	20,694	93,343	5,602	3,360	1,550	10,512	79,670	24,185	52,761 09	21,124 22	7,406 68	81,291 99
Twin No. 4.....	21,030	10,560	14,642	46,232	1,187	555	1,167	2,909	42,639	6,502	24,649 20	11,470 85	3,555 70	39,675 75
Twin No. 5.....	57,143	22,311	37,977	117,431	6,168	2,779	4,129	13,076	113,155	17,352	64,510 00	17,218 05	9,197 85	90,925 90
Black Hawk.....	50	18	57	125	1,849	912	3,437	6,198	4,308	2,015	4,279 89	1,482 06	805 03	6,567 00
Total.....	636,276	395,071	705,075	1,736,422	188,810	75,274	199,759	463,843	1,478,488	721,777	\$1,181,239 07	\$401,346 68	\$152,239 61	\$1,734,825 36



## BITUMINOUS MACHINE MINES—Continued.

## KNOX COUNTY.

NAME OF MINE.	MACHINE MINED.				PICK MINED.				DISTRIBUTION.		WAGES PAID.			
	Tons of screened coal.	Tons of slack and nut.	Tons of mine run.	Total tons of all kinds of coal produced.	Tons of screened coal.	Tons of slack and nut.	Tons of mine run.	Total tons of all kinds of coal produced.	Indiana.	Other states.	To miners.	To inside day men.	To outside day men.	Total wages.
Knox.....	8,813	5,729	30,248	44,790	.....	.....	.....	.....	17,404	27,386	\$20,478 31	\$9,909 44	\$8,747 37	\$39,135 12
Lynn.....	15,170	9,506	27,133	51,809	1,305	684	1,781	3,770	52,946	2,633	25,506 34	10,285 81	7,143 47	42,935 62
Freeman.....	16,481	6,139	81,759	104,379	.....	.....	.....	.....	93,413	10,866	52,192 59	14,288 59	11,823 85	78,305 03
Tecumseh.....	4,125	1,436	25,170	30,731	.....	.....	.....	.....	10,751	19,980	16,109 24	3,458 89	4,393 85	23,961 98
Total.....	44,589	22,810	164,310	231,709	1,305	684	1,781	3,770	174,514	60,965	\$114,286 48	\$37,942 63	\$32,108 54	\$184,337 65

## PARKE COUNTY.

Mecca No. 3.....	5,352	2,613	4,584	12,549	32,894	16,522	24,256	73,672	62,113	24,108	\$54,970 87	\$23,121 54	\$6,356 42	\$84,448 83
Parke No. 11.....	.....	.....	106,595	106,595	.....	.....	24,555	24,555	107,276	23,874	66,882 68	25,086 66	9,057 54	101,026 88
Lyford No. 1.....	7,341	4,335	28,376	38,052	1,931	1,340	31,224	34,495	.....	72,547	42,906 32	12,751 22	9,033 78	64,691 32
Total.....	12,693	6,948	137,555	157,196	34,825	17,862	80,035	132,722	169,389	120,529	\$164,759 87	\$60,959 42	\$24,447 74	\$250,167 03

## PIKE COUNTY.

Ayrshire No. 5.....	4,771	3,319	4,117	12,207	2,922	2,588	10,105	15,615	19,551	8,271	\$15,685 25	\$6,996 11	\$4,381 94	\$27,063 30
Total.....	4,771	3,319	4,117	12,207	2,922	2,588	10,105	15,615	19,551	8,271	\$15,685 25	\$6,996 11	\$4,381 94	\$27,063 30

## SULLIVAN COUNTY.

Rainbow			66,190	66,190					32,923	33,267	\$44,009 00	\$12,362 00	\$6,132 00	\$62,503 00
Phoenix No. 4			97,182	97,182					22,060	75,132	60,965 00	23,667 00	8,728 00	93,380 00
Hocking			46,688	46,688					12,150	34,538	27,665 73	11,931 56	5,826 72	45,423 01
Citizens			13,318	13,318			4,135	4,135	10,453	7,000	12,085 00	4,829 80	2,662 80	19,607 60
Sun Flower	56,325	21,034	4,515	81,874					4,824	77,050	45,127 52	9,277 32	11,251 82	65,986 76
Consolidated No. 25	35,566	17,125	21,045	73,736					22,852	50,884	43,600 79	17,891 74	8,101 32	69,593 85
Consolidated No. 26	10,096	5,021		15,117					3,952	11,165	8,538 43		2,573 40	16,061 85
Consolidated No. 28	2,296		5,848	8,144	27			27	674	7,497	4,543 66	2,794 08	1,123 78	8,461 52
Consolidated No. 30	37,915	25,268	10,907	74,090					21,642	52,548	39,185 44	14,542 34	9,127 54	62,853 32
Consolidated No. 33	115,161	22,652	37,744	175,557	8,774	913	2,018	11,705	31,641	155,721	108,812 06	39,512 73	11,923 75	155,248 54
Consolidated No. 34	1,004		16,815	17,819	117		2,010	2,127	14,365	5,581	8,808 06	4,209 58	1,751 02	14,768 06
Jackson Hill, No. 2	84,746	30,858	87,450	203,054						203,054	100,195 00	34,023 80	12,814 13	147,032 93
Jackson Hill, No. 4	91,380	49,164		140,544						140,544	72,843 04	26,781 22	6,588 84	106,213 10
Dering No. 13	43,768	20,404	50,802	114,974						114,974	52,232 65	32,336 40	8,499 37	93,068 42
Dering No. 14	93,976	72,073	174	166,223						166,223	84,738 68	47,106 29	13,745 98	145,590 95
Mammoth Vein	88,956	58,668	33,712	181,366	279		502	781			100,364 21	36,706 73	16,292 60	153,363 54
Shirley Hill No. 1	60,720	23,466	22,210	106,399	26,473	10,139	11,282	47,894	184,293		97,915 49	28,550 93	10,917 22	137,263 64
Shirley Hill No. 2	12,054	10,809	10,628	33,491	1,050	956	775	2,781	36,272		25,378 19	12,387 88	5,468 88	43,234 45
Shirley Hill No. 3	1,159	718	2,829	4,806					4,806		3,599 20	2,251 64	2,326 18	8,176 22
Little Giant	9,059	4,044	131,065	144,168	5,628	2,690	89,544	97,862	242,038		135,077 28	46,551 15	14,897 24	196,825 67
Kettle Creek	45,303	23,642	20,198	89,143					73,479	15,664	43,338 86	21,179 61	9,743 45	74,261 92
Reliance	40,722	27,642	2,545	70,909	1,596		12	1,608		72,517	42,648 34	18,225 50	9,582 23	70,456 07
Hamilton	4,624	3,002	9,784	18,010	17,043	13,402	40,298	70,743	3,743	55,010	49,770 07	15,452 11	9,678 22	74,800 40
Clover Leaf	45,772	25,149	17,723	88,644	2,375	677		3,880	71,096	21,428	53,352 99	19,804 84	10,204 42	83,362 35
Washington			1,200	1,200					600		891 00	294 00	215 00	1,400 00
Vandalia No. 10	75,561	30,846	133,615	240,022	6,739	3,334	16,570	26,643	257,081	9,554	135,564 06	46,739 62	12,997 60	195,301 28
Consolidated No. 32	Idle													
Total	956,193	472,188	844,287	2,272,688	70,101	32,111	167,974	270,186	1,020,734	1,522,120	\$1,396,247 75	\$534,989 69	\$213,101 61	\$2,144,339 05

## VERMILLION COUNTY.

Crown Hill No. 3	8,999	2,971	4,083	16,003					4,095	11,908	\$10,160 97	\$3,864 31	\$2,627 49	\$16,652 67
Total	8,999	2,971	4,083	16,003					4,095	11,908	\$10,160 97	\$3,864 31	\$2,627 49	\$16,652 67

## BITUMINOUS MACHINE MINES—Continued.

## VIGO COUNTY.

NAME OF MINE.	MACHINE MINED.				PICK MINED.				DISTRIBUTION.		WAGES PAID.			
	Tons of screened coal.	Tons of slack and nut.	Tons of mine run.	Total tons of all kinds of coal produced.	Tons of screened coal.	Tons of slack and nut.	Tons of mine run.	Total tons of all kinds of coal produced.	Indiana.	Other states.	To miners.	To inside day men.	To outside day men.	Total wages.
Atherton.....	31,313	16,432	10,317	58,062	3,563	1,874	1,808	7,245	4,451	60,856	\$34,118 39	\$20,800 35	\$7,022 89	\$61,941 63
Parke No. 10.....	.....	.....	19,344	19,344	.....	.....	106,692	106,692	108,698	17,338	72,201 26	28,108 20	11,106 52	111,415 98
Forrest.....	.....	.....	91,910	91,910	.....	.....	.....	.....	45,760	46,150	59,017 00	17,389 00	8,303 00	84,709 00
Total.....	31,313	16,432	121,571	169,316	3,563	1,874	108,500	113,937	158,909	124,344	\$165,336 65	\$66,297 55	\$26,432 41	\$258,066 61

## WARRICK COUNTY.

Big Four.....	7,829	5,971	76,544	93,335	.....	.....	.....	.....	73,566	16,769	\$12,761 34	\$11,253 28	\$7,449 88	\$61,067 50
Electric.....	.....	.....	113,461	113,461	.....	.....	2,856	2,856	57,297	59,020	48,108 79	21,098 37	7,031 38	76,238 09
Dawson.....	.....	.....	9,061	9,061	.....	.....	.....	.....	3,786	5,278	3,624 23	2,489 22	1,003 22	7,016 87
Chandler.....	.....	.....	19,759	19,759	.....	.....	12,181	12,181	9,511	22,429	15,512 45	4,769 45	2,565 94	22,847 84
Erie Canal.....	.....	.....	50,412	50,412	.....	.....	.....	.....	35,560	14,862	21,710 86	8,263 34	4,341 23	34,315 43
Menden.....	4,720	2,531	8,889	16,140	.....	.....	.....	.....	16,140	.....	7,749 02	2,188 09	1,321 93	11,259 04
Total.....	12,540	8,502	278,129	299,171	.....	.....	15,037	15,037	195,850	118,368	\$138,969 29	\$50,061 75	\$23,713 58	\$212,744 62

# BITUMINOUS HAND OR PICK MINES.

## CLAY COUNTY.

NAME OF MINE.	PICK MINED.				DISTRIBUTION.		WAGES PAID.			
	Tons of screened coal.	Tons of slack and nut coal.	Tons of mine run coal.	Total tons of all kinds of coal produced.	Indiana.	Other states.	To miners.	To inside Day men.	To outside Day men.	Total Wages paid.
Vandalia No. 60.....	76,643	46,023	1,991	124,657	124,100	557	\$76,220 83	\$20,497 95	\$8,092 24	\$104,811 02
Vandalia No. 65.....	150,695	76,145	3,569	230,409	194,772	35,637	145,143 69	27,335 56	9,210 34	181,680 59
Portner.....	Idle.....									
Vivian No. 1.....	375	171	22	568	446	122	348 48	369 60	447 21	1,165 29
Klondyke No. 2.....	40,979	27,604	5,374	73,957	70,690	3,267	43,385 06	11,724 44	4,738 99	59,848 49
Raccoon.....	Idle.....									
Total.....	268,692	149,943	10,956	429,591	390,008	39,583	\$265,098 06	\$59,927 55	\$22,479 78	\$347,505 39

## DAVIESS COUNTY.

Horney.....	3,442	890	10,619	14,951	14,951		\$6,642 76	\$1,692 76	\$2,545 95	\$10,881 47
Montgomery No. 3.....			38,520	38,520	38,520		13,982 96	6,660 60	4,703 92	25,347 48
Mutual.....	10,587	2,500	20,827	33,914	23,168	10,746	33,710 00	8,373 25	4,797 50	46,880 75
Mandabach.....	Idle.....									
Total.....	14,029	3,390	69,966	87,385	76,639	10,746	\$54,335 72	\$16,726 61	\$12,047 37	\$83,109 70

## FOUNTAIN COUNTY.

Indio.....	22,223	8,839	4,471	35,533	35,533		\$24,014 37	\$6,734 90	\$5,100 29	\$35,849 56
Silverwood.....		30	4,536	4,566	4,566		2,660 24	688 90	535 27	3,884 41
Total.....	22,223	8,869	9,007	40,099	40,099		\$26,674 61	\$7,423 80	\$5,635 56	\$39,733 97

## BITUMINOUS HAND OR PICK MINES—Continued.

## GIBSON COUNTY.

NAME OF MINE.	PICK MINED.				DISTRIBUTION.		WAGES PAID.			
	Tons of screened coal.	Tons of slack and nut coal.	Tons of mine run coal.	Total tons of all kinds of coal produced.	Indiana.	Other states.	To miners.	To inside Day men.	To outside Day men.	Total Wages paid.
Oswald.....	49,509	54,380	55,926	159,815	159,815	.....	\$88,081 02	\$37,896 19	\$10,823 55	\$146,800 76
Fort Branch.....	3,950	2,684	340	6,974	6,974	.....	4,094 58	1,043 82	958 20	6,096 60
Massey.....	22,928	11,092	26,879	60,899	60,899	.....	37,966 26	10,864 98	7,870 57	56,701 81
Total.....	76,387	68,156	83,145	227,688	227,688	.....	\$140,141 86	\$49,804 99	\$19,652 32	\$209,599 17

## GREENE COUNTY.

Antioch.....	12,765	6,605	43,375	62,745	40,597	22,148	\$42,079 53	\$16,342 14	\$7,733 20	\$66,154 87
North Linton.....	9,037	4,947	983	14,967	9,332	5,635	9,941 39	3,218 89	1,694 41	14,854 85
Vandalia No. 3.....	27,362	14,084	26,527	67,973	66,925	1,048	42,608 95	13,617 03	4,318 98	60,544 96
Vandalia No. 4.....	33,741	17,640	43,147	94,528	90,217	4,311	58,572 55	12,155 63	4,290 44	75,018 62
Vandalia No. 6.....	23,801	13,128	25,250	62,179	60,604	1,575	40,393 58	10,481 75	4,067 88	54,943 21
Tower Hill.....	21,252	12,064	16,661	49,977	.....	49,977	31,385 72	8,832 86	4,167 97	44,386 55
Vulcan.....	1,380	700	11,100	13,180	13,180	.....	8,420 30	1,815 41	2,277 56	12,513 27
Victoria.....	7,110	5,343	1,935	14,388	14,388	.....	8,562 83	1,824 04	1,603 73	11,990 60
Queen.....	5,212	5,105	19,707	30,024	29,349	675	20,133 26	5,346 15	3,809 04	29,288 45
Letsinger.....	7,091	3,331	16,981	27,403	18,975	9,328	17,221 37	4,271 53	5,087 86	26,580 76
Midvale.....	6,109	3,092	7,838	17,039	6,104	10,935	11,058 99	2,378 06	1,608 17	15,045 22
Sponsler.....	8,815	5,479	34,946	48,640	31,477	17,163	30,311 90	7,260 71	4,234 31	41,806 92
Mooney.....	.....	.....	1,100	1,100	1,100	.....	875 50	129 50	195 50	1,200 50
Total.....	163,675	91,518	248,950	504,143	381,348	122,795	\$321,565 87	\$87,673 70	\$45,089 05	\$454,328 12

## KNOX COUNTY.

Pine Knot.....	4,467	11,668	1,500	17,635	8,634	9,001	\$14,654 55	\$5,364 00	\$2,145 05	\$22,163 60
Blocknell.....	8,732	6,861	24,449	40,042	25,159	14,883	25,190 67	6,809 09	4,676 36	36,676 12
Prospect Hill.....			5,780	5,780	5,780		3,564 36	2,324 74	888 49	6,777 59
Vandalia No. 40.....	3,507	2,880	999	7,386	7,386		4,834 23	1,396 95	790 84	7,022 02
Wheatland.....			68,780	68,780	68,780		43,053 73	9,792 10	4,906 90	57,842 73
William Moore.....	Not reported									
James Moore.....	Not reported									
Total.....	16,706	21,409	101,488	139,603	115,719	23,884	\$61,297 54	\$25,686 88	\$13,497 64	\$130,492 06

## PARKE COUNTY.

Vandalia No. 316.....	38,900	21,883	25,439	86,222	81,027	5,195	\$64,225 68	\$20,760 69	\$7,252 20	\$92,238 47
Vandalia No. 317.....	4,893	2,202	43	7,138	4,794	2,344	5,088 49	2,232 78	952 09	8,273 36
Harrison.....			6,910	6,910	6,910		4,538 75	1,064 90	675 00	6,278 65
Total.....	43,793	24,085	32,392	100,270	92,731	7,539	\$73,852 82	\$24,058 37	\$8,879 29	\$106,790 48

## PERRY COUNTY.

Troy.....			9,567	9,567	9,567		\$6,740 51	\$2,223 95	\$1,562 71	\$10,527 17
Total.....			9,567	9,567	9,567		\$6,740 51	\$2,223 95	\$1,562 71	\$10,527 17

## PIKE COUNTY.

Muren.....	100	151	16,634	16,885		16,885	\$9,687 19	\$4,744 59	\$2,624 20	\$17,055 98
Ayrshire No. 3.....	32,145	19,298	10,775	62,218	33,153	29,065	34,295 40	11,296 54	6,466 41	52,058 35
Ayrshire No. 4.....	78,253	55,904	11,889	146,106	73,053	73,053	85,462 63	32,257 53	14,562 24	132,282 40
Rogers.....			515	515		515	174 25	109 00	52 68	335 93
Blackburn No. 1.....			8,739	8,739		996	5,186 90	1,575 00	1,486 49	8,248 39
Littles.....	52,531	74,254	12,782	139,567	77,622	61,945	80,329 72	28,568 32	7,197 48	111,095 52
Hartwell No. 1.....	6,538	2,764	11,362	20,674	15,376	5,298	15,712 76	9,095 33	2,063 00	26,871 09
Hartwell No. 2.....			5,406	5,406		5,406	17,058 81	4,940 81	1,431 47	23,431 09
Petersburg.....	Idle.									
Winslow No. 4.....	Idle.									
Winslow No. 5.....	Idle.									
Total.....	169,567	152,421	78,122	400,110	212,868	187,242	\$247,907 66	\$87,587 12	\$35,883 97	\$371,378 75

## BITUMINOUS HAND OR PICK MINES—Continued.

## SULLIVAN COUNTY.

NAME OF MINE.	PICK MINED.				DISTRIBUTION.		WAGES PAID.			
	Tons of screened coal.	Tons of slack and nut coal.	Tons of mine run coal.	Total tons of all kinds of coal produced.	Indiana.	Other states.	To miners.	To inside Day men.	To outside Day men.	Total Wages paid.
Semi Block.....	Idle.....									
Cummins.....			18,664	18,664	5,226	13,438	\$12,815 00	\$5,054 00	\$2,120 00	\$19,989 00
Dering No. 12.....	6,334	5,540	509	12,383		12,383	6,814 25	4,234 97	1,301 43	12,350 65
Superior.....	9,132	7,154	10,260	26,546		26,546	15,739 55	6,140 33	2,746 27	24,626 15
Keeley.....	19,743	9,669	2,505	31,917	19,150	12,767	22,514 60	8,228 66	4,987 74	35,731 00
Keystone.....	17,342	9,365	1,262	27,969	7,392	20,577	17,213 27	5,406 29	4,339 13	26,958 69
Total.....	52,551	31,728	33,200	117,479	31,768	85,711	\$75,096 67	\$29,064 25	\$15,494 57	\$119,655 49

## VANDERBURGH COUNTY.

First Avenue.....	20,092	12,392	7,141	39,625	39,510	115	\$26,548 45	\$7,352 41	\$6,922 65	\$40,823 51
Ingleside.....	6,398		40,949	47,347	47,347		33,773 15	9,959 20	7,713 68	51,446 03
Sunnyside.....	23,942	18,909	7,179	50,030	41,616	8,414	29,717 59	9,028 14	9,029 82	47,775 55
Crescent.....	30,269	24,936	75,150	130,355	130,355		81,367 75	23,768 40	10,738 85	115,875 00
Diamond.....	22,996	14,207	6,690	43,893	43,893		29,167 27	8,320 55	6,880 54	44,368 36
Total.....	103,697	70,444	137,099	311,240	302,711	8,529	\$200,574 21	\$58,428 70	\$41,285 54	\$300,288 45

VERMILLION COUNTY.

Dering No. 5.....	56,531	34,405	120,758	211,694	.....	211,694	\$117,095 04	\$46,756 18	\$7,701 23	\$171,552 45
Dering No. 7.....	.....	.....	212,500	212,500	.....	212,500	118,147 85	42,358 70	6,941 12	167,447 67
Dering No. 8.....	11,817	8,146	34,261	54,224	.....	54,224	38,682 81	15,795 61	4,197 78	50,676 20
Dering No. 15.....	.....	.....	5,709	5,709	.....	5,709	3,061 59	1,692 27	601 19	5,355 05
Eureka.....	.....	.....	17,558	17,558	.....	17,558	11,774 83	3,436 61	1,733 01	18,943 45
Crown Hill No. 1.....	51,636	16,877	88,077	156,590	.....	125,104	127,048 87	27,748 50	4,423 87	159,221 24
Crown Hill No. 2.....	69,056	22,552	95,594	187,202	45,664	141,538	162,378 94	25,801 54	3,626 55	194,807 03
Oak Hill.....	24,304	14,400	99,858	138,562	.....	138,562	79,322 53	23,909 72	8,609 92	111,842 17
Maple Valley.....	17,010	10,980	139,739	167,729	.....	167,729	99,428 94	25,279 06	9,521 35	134,229 35
Buckeye.....	30,494	19,150	236,823	286,467	.....	286,467	166,471 16	33,852 05	9,593 70	209,916 91
Prince No. 1.....	15,265	8,720	5,848	29,833	.....	29,833	18,185 80	6,116 05	2,515 55	26,530 40
Prince No. 2.....	.....	.....	1,020	1,020	.....	1,020	807 56	769 65	480 00	2,057 21
Total.....	276,113	135,230	1,057,745	1,469,088	77,150	1,391,938	\$934,415 92	\$256,514 94	\$59,948 27	\$1,250,879 13

VIGO COUNTY.

Lower Vein.....	37,620	19,307	28,530	85,457	85,457	.....	\$55,200 74	\$15,249 60	\$7,042 48	\$77,492 82
Dering No. 6.....	59,706	23,850	207,056	290,611	290,611	.....	185,496 78	50,477 38	9,216 82	224,184 98
Ray No. 2.....	37,149	19,036	61,852	118,037	118,037	.....	77,591 64	23,951 15	7,669 30	109,212 09
Lawton.....	122,019	67,677	529	189,696	189,696	.....	119,663 25	34,679 35	11,355 75	165,698 35
Grant No. 2.....	4,696	3,361	90,153	98,210	37,486	60,744	61,305 60	28,945 80	10,423 13	100,674 58
Vandalia No. 66.....	94,063	67,223	1,499	162,785	157,785	5,000	95,790 36	27,925 42	8,204 73	131,920 51
Vandalia No. 67.....	136,185	71,298	6,770	214,253	197,485	16,768	138,821 61	30,437 67	9,596 19	178,855 47
Vandalia No. 68.....	753	593	12	1,358	1,358	.....	671 75	484 99	567 21	1,723 95
Vandalia No. 69.....	74,188	50,519	532	125,239	125,746	1,493	77,901 92	22,787 60	7,372 40	108,061 92
Vandalia No. 81.....	34,513	27,304	8,886	70,702	45,464	25,238	41,056 54	12,305 27	7,466 18	60,827 99
Chicago No. 6.....	301	175	1,948	2,424	2,424	.....	961 68	283 00	400 00	1,444 68
Miami No. 1.....	88,580	87,728	24,237	200,545	200,545	.....	103,621 89	34,652 83	8,290 24	146,564 96
Miami No. 2.....	51,964	46,707	14,533	113,204	113,204	.....	69,649 43	22,804 52	7,368 80	99,842 75
Miami No. 3.....	102,562	48,944	43,684	195,190	195,190	.....	120,873 20	30,522 91	7,275 59	158,671 70
Fauvre No. 1.....	26,426	18,728	8,027	53,181	53,181	.....	26,425 17	14,771 91	5,913 19	47,110 27
Fauvre No. 2.....	17,254	10,513	7,059	34,826	34,826	.....	17,426 30	7,269 32	5,585 93	30,281 55
Deep Vein.....	30,522	22,356	31,694	90,572	67,584	22,988	61,030 43	13,646 59	8,710 45	83,387 47
Sugar Valley.....	4,161	1,435	2,911	8,505	8,505	.....	5,407 90	2,273 58	2,369 63	10,051 11
Victor.....	62,719	39,115	1,306	103,140	103,140	.....	56,982 25	10,968 65	6,405 05	74,375 95
Wabash.....	11,062	7,381	39,161	58,204	54,003	4,201	37,964 00	13,432 80	6,795 75	58,192 55
Minshall.....	3,549	1,749	1,556	6,854	6,119	735	6,742 60	1,010 45	1,451 65	9,234 70
Total.....	1,006,591	634,997	581,934	2,223,522	1,283,852	939,670	\$1,340,579 04	\$398,900 79	\$138,530 52	\$1,878,010 35



## BITUMINOUS HAND OR PICK MINES—Continued.

## WARRICK COUNTY.

NAME OF MINE.	PICK MINED.				DISTRIBUTION.		WAGES PAID.			
	Tons of screened coal.	Tons of slack and nut coal.	Tons of mine run coal.	Total tons of all kinds of coal produced.	Indiana.	Other states.	To miners.	To inside Day men.	To outside Day men.	Total Wages paid.
Big Vein No. 3.....			9,104	9,104	9,104		\$5,633 45	\$1,604 90	\$996 65	\$8,235 00
Castle Garden.....			93,039	93,039	93,039		59,476 35	7,556 80	5,186 90	72,220 05
Burke.....	12,660	6,251	5,180	24,091	24,091		14,656 88	2,634 87	1,682 75	18,974 50
Elberfield.....			14,389	14,389	14,389		9,089 85	2,224 38	2,545 05	13,859 28
Star No. 1.....	Idle									
Total.....	12,660	6,251	121,712	140,623	140,623		\$88,856 53	\$14,020 95	\$10,411 35	\$113,288 83

# RECAPITULATION.

*Showing Total Production and Wages of Indiana Mines for 1907.*

## TOTAL PRODUCTION OF BLOCK COAL.

	MACHINE MINED.				PICK MINED.				DISTRIBUTION.		WAGES.			
	Tons of screened coal.	Tons of slack and nut coal.	Tons of mine run coal.	Total tons of all kinds of coal produced.	Tons of screened coal.	Tons of slack and nut coal.	Tons of mine run coal.	Total tons of all kinds of coal produced.	Indians.	Other states.	To miners.	To inside day men.	To outside day men.	Total wages paid.
Total machine mined block coal.....	106,646	15,429	2,534	124,609	10,285	4,991	4,922	20,198	32,003	112,804	\$117,507 51	\$53,987 67	\$19,011 55	\$190,506 73
Total pick mined block coal.....					577,452	132,337	20,637	730,426	300,589	429,837	677,799 66	234,016 77	127,876 07	1,039,692 50
Total block coal	106,646	15,429	2,534	124,609	587,737	137,328	25,559	750,624	332,592	542,641	\$795,307 17	\$288,004 44	\$146,887 62	\$1,230,199 23

## TOTAL PRODUCTION OF BITUMINOUS COAL.

Total bituminous machine mined coal.....	1,798,590	980,163	2,327,889	5,106,642	333,134	145,940	589,358	1,068,432	3,397,013	2,778,061	\$3,318,857 55	\$1,234,456 83	\$518,731 37	\$5,072,045 75
Total bituminous pick mined coal.....					2,226,684	1,398,441	2,575,283	6,200,408	3,382,771	2,817,637	3,867,137 02	1,118,042 60	430,397 94	5,415,577 56
Total bituminous coal.....	1,798,590	980,163	2,327,889	5,106,642	2,559,818	1,544,381	3,164,641	7,268,840	6,779,784	5,595,698	7,185,994 57	2,352,499 43	949,129 31	10,487,623 31
Total machine mined coal.....	1,905,236	995,592	2,330,423	5,231,251	343,419	150,931	594,280	1,088,630	3,429,016	2,890,865	3,436,365 06	1,288,444 50	537,742 92	5,262,552 48
Total pick mined coal.....					2,804,136	1,530,778	2,595,920	6,930,834	3,683,360	3,247,474	4,544,936 68	1,352,059 37	558,274 01	6,455,270 06
Grand Total..	5,052,791	2,677,301	5,520,623	13,250,715					7,112,376	6,138,339	\$7,981,301 74	\$2,640,503 87	\$1,096,016 93	\$11,717,822 54

TABLE

*Showing Number of Miners, Machine Runners and Helpers, Loaders, Inside Day and Monthly Men, Persons Employed Outside; Total Number of Employees at Each Mine, Number of Days Worked and Number of Mules Used; Totals by Counties.*

## CLAY COUNTY.

NAME OF MINE.	Pick Miners.	Machine Runners and Helpers.	Loaders.	Inside Day and Monthly Men.	Outside Day Men.	Total Employees.	Days Worked.	Mules Used.	Powder.
Gifford No. 1.....	25	4	17	13	9	68	234	5	1,507
Gifford No. 2.....	25	3	36	22	9	100	115	5	1,051
Lewis.....	3	16	54	12	3	93	132	2	675
Vivian No. 2.....	12	12	54	16	5	99	248	4	1,498
Gold Knob.....	8	10	29	14	9	70	161	4	867
Vandalia No. 60.....	89			29	13	130	281	7	3,728
Vandalia No. 65.....	208			47	16	271	260	16	8,271
Fortner (Idle).....									
Vivian No. 1.....	6			5	1	12	49	1	39
Stunkard.....	11			4	2	17	41	2	119
Klondyke No. 2.....	61			15	5	81	275	5	3,095
Brazil Block No. 1.....	20			6	4	30	304	3	910
Lower Vein No. 1 (Idle).....									
Brazil Block No. 4.....	85			23	12	120	201	8	3,426
Brazil Block No. 8.....	14			5	3	22	46	2	115
Gart No. 7.....	40			7	6	53	249	3	1,108
Continental No. 1.....	14			5	5	24	183	2	229
Rebstock.....	49			23	7	79	269	7	2,151
Superior No. 4.....	70			19	6	95	253	5	3,146
Crawford No. 8.....	26			5	4	35	235	2	1,062
Crawford No. 9.....	65			16	5	86	277	6	3,327
Glen No. 1.....	35			8	5	48	221	4	1,519
Plymouth No. 2.....	36			6	4	46	258	2	2,274
Monarch.....	20			2	2	24	295	1	704
Indiana Block.....	24			4	4	32	197	2	679
Worlds Fair No. 2.....	21			3	3	27	69	1	101
Crawford No. 2.....	37			16	7	60	263	4	1,868
Harrison No. 4.....	26			3	3	32	203	2	699
Vandalia No. 50.....	37			12	5	54	250	3	1,497
Eureka No. 5.....	66			15	7	88	236	5	3,734
Crawford No. 6.....	73			19	7	99	254	9	3,750
Treager.....	11			2	1	14	255	1	670
Progressive.....	15			2	1	18	182	1	1,312
Wizard.....	33			6	4	43	199	3	871
Raccoon (Idle).....									
Total.....	1,265	50	190	384	181	2,070	6,695	138	56,002

## DAVIESS COUNTY.

Horney.....	8			1	2	11	175	1	382
Montgomery No. 3.....	27			8	6	41	220	4	1,098
Mutual.....	63			15	8	86	211	7	2,399
Mandabach (Idle).....									
Total.....	98			24	16	138	606	12	3,879

Table Showing Number of Miners, Machine Runners and Helpers, Etc.—Con.

## FOUNTAIN COUNTY.

NAME OF MINE.	Pick Miners.	Machine Runners and Helpers.	Loaders.	Inside Day and Monthly Men.	Outside Day Men.	Total Employes.	Days Worked.	Mules Used.	Powder.
Indio.....	39	.....	.....	12	.....	57	206	.....	1,394
Sturm.....	18	.....	.....	2	2	22	43	2	233
Total.....	57	.....	.....	14	8	79	249	8	1,627

## GIBSON COUNTY.

Oswald.....	94	.....	.....	49	11	154	278	19	5,758
Fort Branch.....	8	.....	.....	2	3	13	125	1	297
Massey.....	74	.....	.....	17	7	98	182	11	3,805
Total.....	176	.....	.....	68	21	265	585	31	9,860

## GREENE COUNTY.

Island Valley No. 4.....	7	14	64	16	9	110	172	7	1,150
Black Creek.....	68	8	35	41	10	162	181	15	3,935
Glenburn.....	66	2	7	22	8	105	79	8	921
Vandalia No. 2.....	130	12	23	71	18	254	252	21	6,404
Vandalia No. 5.....	99	32	66	70	29	296	252	16	3,972
Vandalia No. 8.....	18	22	123	58	16	237	222	16	2,333
Vandalia No. 9.....	35	10	68	45	14	172	257	14	2,894
Vandalia No. 21.....	.....	30	85	25	15	155	268	6	1,371
Gilmour.....	31	14	94	53	15	207	151	14	2,929
Hoosier No. 1.....	17	8	27	18	10	80	40	4	214
Lattas Creek.....	66	26	127	78	25	322	261	18	5,696
Summitt No. 2.....	10	18	96	50	11	185	229	22	1,822
Green Valley.....	.....	12	66	19	9	106	152	8	999
North West.....	11	14	62	34	12	133	179	11	1,273
Twin No. 4.....	8	6	33	17	6	70	163	6	436
Twin No. 5.....	11	16	81	23	9	140	158	9	1,253
Antioch.....	51	.....	.....	18	8	77	210	9	4,052
Sponsler.....	56	.....	.....	13	6	75	108	8	2,026
North Linton.....	45	.....	.....	12	4	61	83	6	821
Vandalia No. 3.....	107	.....	.....	19	7	133	135	13	2,611
Vandalia No. 4.....	94	.....	.....	28	10	132	150	9	3,785
Vandalia No. 6.....	42	.....	.....	17	6	85	240	5	2,647
Tower Hill.....	116	.....	.....	18	8	142	57	5	2,098
Vulcan.....	27	.....	.....	5	5	37	79	3	674
Victoria.....	12	.....	.....	5	6	23	87	2	390
Queen.....	35	.....	.....	9	6	50	193	4	1,755
Letsinger.....	33	.....	.....	5	4	42	143	3	901
Midvale.....	59	.....	.....	13	10	82	70	3	736
Total.....	1,254	244	1,057	802	296	3,653	4,680	265	60,098

## KNOX COUNTY.

Vandalia No. 40.....	25	.....	.....	7	5	37	30	3	407
Knox.....	6	8	27	11	12	64	220	4	796
Lynn.....	7	4	25	12	9	57	227	5	829
Pine Knot.....	60	.....	.....	19	10	89	56	7	800
Freeman.....	.....	12	50	16	11	89	192	5	1,429
Tecumseh.....	.....	14	20	7	10	51	144	2	504
Bicknell.....	48	.....	.....	17	9	74	121	9	2,247
Prospect Hill.....	13	.....	.....	7	5	25	86	2	284
Wheatland.....	69	.....	.....	14	7	90	211	7	3,631
Total.....	228	38	122	110	78	576	1,287	44	10,927

Table Showing Number of Miners, Machine Runners and Helpers, Etc.—Con.

## PARKE COUNTY.

NAME OF MINE.	Pick Miners.	Machine Runners and Helpers.	Loaders.	Inside Day and Monthly Men.	Outside Day Men.	Total Employes.	Days Worked.	Mules Used.	Powder.
Mecca No. 3.....	74	10	7	32	9	132	237	14	3,869
Parke No. 11.....	20	26	57	35	11	149	226	9	1,988
Lyford No. 1.....	57	24	39	18	11	149	257	6	2,828
Vandalia No. 316.....	95			38	12	145	195	14	3,743
Vandalia No. 317.....	29			14	6	49	36	6	251
Harrison (not reported).....									
Mary.....	10	16	51	37	12	126	242	12	685
Brazil Block No. 9.....	65			27	8	100	198	10	2,626
Brazil Block No. 12.....	27			11	7	45	101	3	590
Superior No. 1.....	22			4	3	29	264	2	583
Superior No. 2.....	41			16	7	64	260	5	1,998
Superior No. 3.....	66			15	5	86	231	6	3,011
Superior No. 5.....	69			15	6	90	287	6	4,486
William Moore (New mine, not reported).....									
James Moore (New mine, not reported).....									
Total.....	575	76	154	262	97	1,164	2,514	93	26,658

## PERRY COUNTY.

Troy.....	11			3	2	16	248	2	306
Total.....	11			3	2	16	248	2	306

## PIKE COUNTY.

Carbon.....	25			10	5	40	212	6	989
Ayrshire No. 3.....	53			16	9	78	209	9	2,442
Ayrshire No. 4.....	143			42	20	205	210	19	7,138
Ayrshire No. 5.....	20	6	31	9	13	79	156	6	1,059
Rogers.....	9			2	1	12	25	1	13
Blackburn No. 1.....	41			8	6	55	58	5	452
Littles.....	141			32	12	185	190	15	6,824
Hartwell No. 1.....	75			17	12	104	90	6	1,282
Hartwell No. 2.....	48			9	3	60	152	5	1,326
Petersburg (Idle).....									
Total.....	555	6	31	145	81	818	1,302	72	21,535

Table Showing Number of Miners, Machine Runners and Helpers, Etc.—Con.

## SULLIVAN COUNTY.

NAME OF MINE.	Pick Miners.	Machine Runners and Helpers.	Loaders.	Inside Day and Monthly Men.	Outside Day Men.	Total Employees.	Days Worked.	Mules Used.	Powder.
Rainbow.....	2	18	100	31	16	167	106	13	2,346
Phoenix No. 4.....	18	18	96	46	16	176	140	16	3,539
Hocking.....	10	16	80	40	23	169	96	15	1,711
Citizens.....	12	10	35	17	9	83	129	6	963
Sunflower.....	1	12	70	18	10	111	94	8	709
Consolidated No. 25.....	10	12	18	20	12	72	240	5	1,285
Consolidated No. 26.....	5	12	52	15	13	97	46	7	285
Consolidated No. 28.....	2	4	29	19	9	63	50	6	134
Consolidated No. 30.....	12	12	59	21	13	105	144	9	948
Consolidated No. 33.....	17	22	121	63	14	237	182	29	2,230
Consolidated No. 22 (Idle).....	12	12	66	24	13	127	24	8	1,122
Consolidated No. 34.....	40	13	8	61	116	5	910		
Keystone.....	20	105	35	17	177	204	17	1,741	
Jackson Hill No. 2.....	16	85	33	13	147	211	15	1,437	
Jackson Hill No. 4.....	16	64	28	12	120	225	9	1,397	
Dering No. 13.....	22	102	58	28	210	225	22	1,439	
Dering No. 14.....									
Semi Block (Idle).....									
Mammoth Vein.....	16	93	52	22	183	243	13	1,767	
Shirley Hill No. 1.....	47	10	55	37	13	162	269	12	4,326
Shirley Hill No. 2.....	4	6	25	19	9	63	189	4	561
Shirley Hill No. 3.....	2	8	5	7	22	107	1	149	
Little Giant.....	105	14	97	59	19	294	252	18	6,562
Kettle Creek.....	4	10	64	24	9	111	157	12	912
Reliance.....	14	60	24	10	108	191	7	1,027	
Diamond No. 1.....	67	10	12	18	9	116	224	5	3,482
Black Hawk.....	31	4	12	4	55	40	2	348	
Clover Leaf.....	7	13	61	29	11	121	185	9	1,315
Washington.....	10	4	23	14	15	66	12	4	45
Cummins.....	29			11	5	45	183	5	898
Vandalia No. 10.....	11	18	136	76	19	260	252	17	3,287
Dering No. 12.....	49			22	9	80	57	7	699
Hudson.....	87			36	9	132	117	5	1,471
Keeley.....	49			18	9	76	150	6	1,691
Total.....	611	343	1,728	929	405	4,016	4,860	317	49,766

## VANDERBURGH COUNTY.

First Avenue.....	38			8	8	54	279	5	1,667
Ingleside.....	49			13	11	73	307	7	2,420
Sunnyside.....	48			13	8	69	197	10	1,954
Crescent.....	112			36	12	160	270	22	7,181
Diamond.....	39			10	10	59	243	5	1,668
Total.....	286			80	49	415	1,296	49	14,890

Table Showing Number of Miners, Machine Runners and Helpers, Etc - Con  
VERMILLION COUNTY.

NAME OF MINE.	Pick Miners.	Machine Runners and Helpers.	Loaders.	Inside Day and Monthly Men.	Outside Day Men.	Total Employees.	Days Worked.	Mules Used.	Powder.
Dering No. 5 .....	152			49	7	208	245	19	13,309
Dering No. 7 .....	150			46	15	211	262	21	12,552
Eureka .....	17			5	2	24	199	5	693
Crown Hill No. 1 .....	140			25	9	174	236	16	10,419
Crown Hill No. 2 .....	168			25	9	202	267	16	14,434
Crown Hill No. 3 .....		8	9	6	4	27	298	1	190
Oak Hill .....	117			31	9	157	175	14	9,056
Maple Valley .....	104			25	9	138	259	12	10,124
Buckeye .....	261			48	10	319	209	21	18,965
Prince No. 1 .....	97			34	9	140	60	12	2,192
Dering No. 8 .....	145			22	9	176	143	7	3,166
Dering No. 15 .....	100			10	6	116	21	10	412
Prince No. 2 .....	20			5	4	29	25	2	20
Total .....	1,471	8	9	331	102	1,921	2,399	156	95,531

## VIGO COUNTY.

Dering No. 6 .....	226			51	12	289	229	24	16,429
Plymouth No. 1 .....	17	4	12	4	5	42	264	2	1,361
Atherton .....	7	10	32	16	9	74	192	6	1,155
Parke No. 10 .....	90	16	20	35	15	176	225	14	4,808
Ray No. 2 .....	122			27	9	158	154	11	4,415
Forrest .....	54	22	51	37	17	181	166	14	3,959
Lawton .....	197			51	15	263	253	35	6,416
Grant No. 2 .....	99			41	12	152	211	20	5,079
Vandalia No. 66 .....	120			42	16	178	277	12	6,947
Vandalia No. 67 .....	187			52	15	254	233	20	7,912
Vandalia No. 68 (Not reported) .....									62
Chicago No. 6 .....	17			3	2	22	57	2	93
Vandalia No. 69 .....	104	2	1	41	11	159	276	10	6,740
Vandalia No. 81 .....	59			22	12	93	278	9	3,676
Miami No. 1 .....	147			34	10	191	262	18	7,788
Miami No. 2 .....	111			17	7	135	260	9	4,655
Miami No. 3 .....	171			32	9	212	243	15	7,341
Fauvre No. 1 .....	46			11	5	62	291	5	2,172
Fauvre No. 2 .....	30			6	7	43	239	2	1,880
Deep Vein .....	80			17	9	106	195	9	5,796
Sugar Valley .....	10			4	3	17	219	1	508
Victor .....	105			13	9	127	224	5	3,736
Wabash .....	44			10	8	62	218	4	2,862
Minshall .....	25			5	7	37	75	2	363
Domestic Block .....	19	12	52	36	16	135	221	8	1,365
Lower Vein No. 1 .....	83			36	12	131	265	7	5,033
Total .....	2,170	66	168	643	252	3,299	5,527	264	112,550

## WARRICK COUNTY.

Menden .....		4	10	3	3	20	182	2	265
Big Four .....		12	37	15	12	76	247	12	1,158
Big Vein No. 3 .....	20			10	6	36	30	2	8
Electric .....	13	10	53	33	11	120	246	15	2,274
Dawson .....		10	24	9	5	48	144	5	209
Erie Canal .....	3	8	37	16	7	71	181	5	848
Chandler .....	25	6	12	7	5	55	189	4	959
Castle Garden .....	61			10	8	79	291	4	5,548
Star No. 1 (Idle) .....									
Brixius .....	28			5	5	38	170	3	1,123
Elberfeld .....	27			4	5	36	146	3	669
Total .....	177	50	173	112	67	579	1,826	55	13,061
Grand Total .....	8,934	881	3,632	3,907	1,655	19,009	34,074	1,506	476,692

TABLE

*Exhibiting a Comparative Statement of Total Tons of Coal Produced, Total Number of Employes, Total Wages Paid and Per Cent. Gain or Loss in Number of Employes, Tons of Coal Produced and Wages Paid in the Block Coal Mines for each year from 1901 to 1907.*

## BLOCK COAL MINE

YEAR.	Em- ployes.	Per Cent. Gain.	Per Cent. Loss.	Tons Produced.	Per Cent. Gain.	Per Cent. Loss.	Wages Paid.	Per Cent. Gain.	Per Cent. Loss.
1901-1900...	2,742	34		1,090,522		27.8	\$1,228,372 72		.035
1902.....	2,452		10.5	1,162,764	7		1,356,036 45	10.4	
1903.....	2,293		.06	1,025,940		11.7	1,402,935 99	.34	
1904.....	2,128		.071	727,062		29.1	1,085,056 33		29. +
1905.....	1,966		.076	658,735		.095	917,501 22		18.2
1906.....	1,994	.014		746,670	13.3		974,549 71	.062	
1907.....	1,853		.07	875,233	3.81		1,230,199 23	2.62	

TABLE

*Showing a Comparative Statement of Total Numbers of Employes, Total Tons of Coal Produced, Total Wages Paid, Per Cent. Gain or Loss in Number of Employes in the Bituminous Mines of the State from 1901 to 1907.*

## BITUMINOUS MINES.

YEAR.	Em- ployes.	Per Cent. Gain.	Per Cent. Loss.	Tons Produced.	Per Cent. Gain.	Per Cent. Loss.	Wages Paid.	Per Cent. Gain.	Per Cent. Loss.
1901.....	9,354	19		5,928,681	24		\$4,452,167 14	.35	
1902.....	10,687	14.8		7,600,433	18		5,722,814 67	.29	
1903.....	12,835	20 +		8,966,613	17		7,746,636 13	.37	
1904.....	15,710	22		9,145,332	.02		8,080,348 05	.43	
1905.....	16,643	5.9		10,337,237	.13		8,436,393 43	.044	
1906.....	17,568	5.5		10,675,357	.032		8,998,491 67	.066	
1907.....	17,156		2.34	12,375,482	.159		10,487,623 31	16.5	



TABLE

*Exhibiting the Number of Miners, the Number of Inside Day and Monthly Men, the Number of Outside Day and Monthly Men, the Total Wages Earned by Same and Average Earnings Per Employe in the Block and Bituminous Mines, Each Exhibited Separately.*

## BLOCK COAL MACHINE MINES.

COUNTY.	Number of Miners.	Total Wages.	Average Wages.	Number of Inside Employes.	Total Wages.	Average Wages.	Number of Outside Employes.	Total Wages.	Average Wages.
Clay.....		\$9,031 68			\$6,681 37			\$2,082 01	
Parke.....	77	53,464 85	\$694 34	37	25,707 14	\$694 78	12	9,411 86	\$784 32
Vigo.....	83	55,010 98	474 23	36	21,599 16	539 97	16	7,517 68	469 65
General average.....	160	117,507 51	\$734 42	73	\$53,987 67	\$739 55	28	\$19,011 55	\$678 98

## BLOCK COAL PICK MINES.

Clay.....	828	\$481,846 50	\$581 94	211	\$158,564 21	\$751 48	107	\$89,167 26	\$833 33
Parke.....	290	183,406 11	632 43	88	66,578 06	756 56	36	33,968 36	943 56
Vigo.....	33	12,547 05	380 21	4	8,874 50	221 87	5	4,740 45	948 09
General average.....	1,151	\$677,799 66	\$588 87	303	\$234,016 77	\$772 33	148	\$127,876 07	\$864 02
Total general average for block employes.....	1,311	\$795,307 17	\$606 64	376	\$288,004 44	\$765 97	176	\$146,887 62	\$834 58

## BITUMINOUS MACHINE MINES.

Clay.....	398	\$132,172 32	\$332 09	93	\$71,998 69	\$774 17	49	\$39,678 45	\$809 76
Greene.....	1,792	1,181,239 07	659 11	624	401,346 68	643 18	207	152,239 61	735 45
Knox.....	173	114,286 48	660 61	46	37,942 63	824 83	42	32,108 54	764 48
Parke.....	314	164,759 87	527 26	85	60,959 42	717 16	31	24,447 74	788 63
Pike.....	57	15,685 25	275 15	9	6,996 11	777 34	13	4,381 94	337 07
Sullivan.....	2,428	1,396,247 75	575 06	829	534,989 69	645 34	365	213,101 61	583 83
Vermillion.....	17	10,160 87	597 69	6	3,864 31	644 05	4	2,627 49	597 69
Vigo.....	302	165,336 65	547 47	88	66,297 55	753 00	41	26,432 41	644 69
Warrick.....	264	138,969 29	526 39	83	50,061 75	603 15	43	23,713 58	551 47
General average.....	5,745	3,318,857 55	577 52	1,863	\$1,234,456 83	\$662 61	795	\$518,731 37	\$652 49

BITUMINOUS HAND MINES.

COUNTY	Number of Miners.	Total Wages.	Average Wages.	Number of Inside Employees.	Total Wages.	Average Wages.	Number of Outside Employees.	Total Wages.	Average Wages.
Clay.....	364	\$265,098 06	\$728 26	96	\$59,927 55	\$624 24	34	\$22,479 78	\$661 17
Davies.....	98	54,335 72	554 44	24	16,726 61	696 94	16	12,047 37	752 83
Fountain.....	57	26,674 61	467 97	14	7,423 80	530 27	8	5,635 56	704 44
Gibson.....	176	140,141 86	796 26	68	49,804 99	732 42	21	19,562 32	935 82
Green.....	677	321,565 87	474 98	162	87,673 70	541 19	81	45,089 05	556 65
Knox.....	215	91,297 54	424 63	64	25,686 88	401 35	36	13,497 64	374 93
Parke.....	124	73,852 82	595 58	52	24,058 37	462 66	18	8,879 29	493 29
Perry.....	11	6,740 51	612 77	3	2,223 95	741 31	2	1,562 71	527 70
Pike.....	535	247,907 66	463 37	136	87,587 12	644 02	68	35,383 97	786 35
Sullivan.....	254	75,096 67	295 65	100	29,064 25	290 64	49	15,494 57	389 86
Vanderburgh.....	286	200,574 21	701 30	80	58,428 70	730 35	49	41,285 54	842 56
Vermillion.....	1,471	934,415 92	635 23	325	256,514 94	789 27	98	59,948 27	611 71
Vigo.....	1,986	1,340,579 04	675 02	515	398,900 79	774 56	190	138,530 52	729 01
Warrick.....	136	88,856 53	653 35	29	14,020 95	483 48	24	10,411 35	433 80
General average.....	6,390	\$3,867,137 02	\$605 18	1,668	\$1,118,042 60	\$670 28	685	\$430,397 94	\$628 31
Total average for State.....	12,135	\$7,981,301 74	\$657 71	3,531	\$2,640,503 87	\$747 80	1,480	\$1,096,016 93	\$740 55

NOTE 1.—The mine reported as a block coal machine mine in Clay County is not included in the above averages because of the fact about half the wages reported was paid for mining Clay.

NOTE 2.—Machine runners, helpers, loaders and miners are all reported together under miners.

TABLE OF TOTAL PRODUCTION AND WAGES.

TABLE

*Showing by Counties the Number of Tons of Coal Mined, the Number of Kegs of Powder Used and the Average Number of Tons Produced Per Keg in the Block Coal Mines of the State, the Pick and Machine Exhibited Separately; Also a General Average of Tons Produced per Keg in the Pick and Machine Mines Combined.*

## BLOCK COAL MACHINE MINES.

COUNTY.	Tons produced.	Kegs of powder.	Tons per keg.
Clay.....	7,456	704	10.5
Parke.....	74,927	685	109.3
Vigo.....	62,424	1,365	45.7
General average.....	13,735	2,050	87

## BLOCK COAL PICK MINES.

Clay.....	528,553	34,567	15.2
Parke.....	189,693	13,294	14.2
Vigo.....	12,180	1,361	9
General average.....	718,246	49,222	14.5
Total general average.....	855,597	51,272	16.6

NOTE 1. The total number of kegs of powder used in the block coal mines in 1907 was 51,976 kegs.

NOTE 2. About one-half the powder reported from the Clay County Machine Mines was used in mining clay and the powder reported from the Vigo County Pick Mines was reported from a new mine and the greater portion of the powder was used sinking the manway and completing the shaft bottom, etc. Neither of these amounts have been included in the above general average.

TABLE

*Showing the Number of Tons of Coal Produced, The Number of Kegs of Powder Used and the Average Number of Tons Produced Per Keg in the Bituminous Mines of the State, the Pick and Machine Mines Each Shown Separately.*

## BITUMINOUS MACHINE MINES.

COUNTY.	Tons produced.	Kegs of powder.	Tons per keg.
Clay.....	265,272	5,598	47.11
Greene.....	2,200,265	37,602	58.5
Knox.....	235,479	3,558	66.1
Parke.....	289,918	8,685	33.3
Pike.....	27,822	1,059	26.2
Sullivan.....	2,542,854	44,097	57.21
Vermillion.....	16,003	190	84.2
Vigo.....	283,253	9,918	25.5
Warrick.....	314,208	5,713	55
General average.....	6,175,074	118,420	53

Table Showing the Number of Tons of Coal Produced, Etc.—Continued.

TABLE OF BITUMINOUS PICK MINES.

COUNTY.	Tons produced.	Kegs of powder.	Tons per keg.
Clay.....	429,581	15,133	28.3
Davies.....	87,385	3,879	22.5
Fountain.....	40,099	1,627	24.6
Gibson.....	227,688	9,860	23.09
Greene.....	504,143	22,496	22.41
Knox.....	139,603	7,369	18.66
Parke.....	100,270	3,994	25.13
Perry.....	9,567	308	31
Pike.....	400,110	20,476	19.5
Sullivan.....	117,479	5,669	2.07
Vanderburgh.....	311,240	14,890	2.09
Vermillion.....	1,469,088	95,341	15.4
Vigo.....	2,223,522	99,906	22.26
Warrick.....	140,623	7,348	19.13
General average.....	6,200,408	308,296	20.11

RECAPITULATION.

	Tons produced.	Kegs of powder.	Tons per keg.
General average Bituminous Hand Mines.....	6,200,408	308,296	20.1
General average Bituminous Machine Mines.....	6,175,074	116,420	53.04
General average of all Bituminous Mines.....	12,375,482	424,716	29.13
General average of all Block Coal Mines.....	855,597	51,272	16.68
Total general average for the State.....	13,231,079	475,988	27.79

NOTE 1. The above averages represent mines only from which coal was reported.

NOTE 2. There were 704 kegs of powder reported from the bituminous mines, for which we have no coal reported and are not included in the above averages. This amount added to the powder mentioned in the foot note under the block coal tables brings the total amount of powder used in 1907 up to 476,692 kegs and the coal represented by the two block mines mentioned in the foot note brings the total tonnage for the year up to 13,250,715 tons.

TABLE

Showing a Comparison of the Cost per Ton for Powder for the Years 1906 and 1907.

Year.	KIND OF COAL.	Tons produced.	Kegs of powder.	Price per keg.	Total cost.	Cost per ton.
1906	Machine block coal.....	114,869	1,691	\$1 75	\$2,959 25	\$.0257
1907	Machine block coal.....	137,351	2,050	1 75	3,587 50	.0261
1906	Pick mined block coal.....	631,801	41,185	1 75	72,073 75	.114
1907	Pick mined block coal.....	718,246	49,222	1 75	86,138 50	.1199
1906	Machine bituminous coal.....	5,051,527	97,230	1 75	170,152 50	.0336
1907	Machine bituminous coal.....	6,175,074	116,420	1 75	203,715 00	.0329
1906	Pick mined bituminous coal.....	5,623,830	286,919	1 75	502,108 25	.0892
1907	Pick mined bituminous coal.....	6,200,408	308,296	1 75	539,518 00	.087

NOTE: The above table shows the total production for the state in 1907 to have cost \$0.087 per ton or \$0.0022 per ton less than in 1906. These figures show a net gain or saving of \$29,108.37 to the miners of the state for powder used in mining in 1907.

TABLE

*Exhibiting the Names of Coal Companies, Names of Mines Operated by them, the Geological Number of the Different Coal Seams Mined, the Thickness of Each Seam, the Depth from Surface to Each Seam, Pick or Machine Mines.*

## BLOCK COAL MINES.

## CLAY COUNTY.

NAME OF COMPANY.	Name of Mine.	Railroad.	Geological number of coal seam.	Thickness of coal seam.	Depth from surface to coal seam.	Pick or machine mine.
Brazil Block Coal Co.	Brazil No. 1	C. & E. I.	IV	3'6"	101	Machine.
Brazil Block Coal Co.	Brazil No. 4	C. & E. I.	III	3'9"	160	Pick.
Brazil Block Coal Co.	Brazil No. 7	Vandalia.	III	3'6"	75	Pick.
Brazil Block Coal Co.	Brazil No. 8	C. & E. I.	III	3'6"	59	Pick.
Superior Block Coal Co.	Continental.	Vandalia.	IV	4'6"	65	Pick.
Superior Block Coal Co.	Rel-stock.	C. & E. I.	IV	4'6"	85	Pick.
Zellar-McClellan Coal Co.	Superior No. 4	Vandalia.	IV	3'9"	80	Pick.
Zellar-McClellan Coal Co.	Superior No. 7	Vandalia.	IV	3'9"	85	Pick.
Chicago-Indiana Block Coal Co.	Harrison No. 4	E. & I.	IV	4'9"	75	Pick.
Crawford Coal Co.	Crawford No. 4	Vandalia.	IV	4'	60	Pick.
Crawford Coal Co.	Crawford No. 2	Vandalia.	IV	3'6"	68	Pick.
Crawford Coal Co.	Crawford No. 6	Vandalia.	III	3'6"	116	Pick.
Crawford Coal Co.	Crawford No. 8	E. & I.	III	3'	50	Pick.
Crawford Coal Co.	Crawford No. 9	C. & E. I.	IV	4'	86	Pick.
American Clay Manufacturing Co.	Monarch.	C. & E. I.	IV	3'6"	81	Pick.
Indiana Block Coal Co.	Lower Vein No. 1	E. & I.	IV	3'	58	Pick.
Eureka Block Coal Co.	Eureka No. 5	C. C. C. & St. L.	III	3'6"	116	Pick.
McLaughlin & Treasurer.	Tronger.	Wagon mine.	IV	4'	60	Pick.
Vandalia Coal Co.	Vandalia No. 50	Center Point Branch Vandalia.	III	2'	105	Pick.
Coal Bluff Mining Co.	Glenn No. 1	C. & E. I.	IV	4'6"	215	Pick.
Coal Bluff Mining Co.	Plymouth No. 2	C. & E. I.	III	3'2"	110	Pick.
Nick Scheferman.	Scheferman.	Local mine.	III	4'6"	60	Pick.
Hall & Zimmerman.	Wizard.	Central Indiana.	III	3'6"	42	Pick.
Crawford Coal Co.	Crawford No. 10.	C. & E. I.	IV	4'6"	128	Pick.
Sam Pyria.	Pyria.	Local.	IV	4'	40	Pick.

## PARKE COUNTY.

Brazil Block Coal Co.	Brazil No. 12	C. & I. C.	III	3'6"	98	Pick.
Otter Creek Coal Co.	Mary	C. & I. C.	III	4'10"	105	Machine.
Brazil Block Coal Co.	Brazil No. 9	C. & I. C.	III	4'6"	120	Pick.
Zellar-McClellan & Co.	Superior No. 1	C. & I. C.	III	5'	108	Pick.
Zellar-McClellan & Co.	Superior No. 2	C. & I. C.	III-V	3'6"-3'8"	135	Pick.
Zellar-McClellan & Co.	Superior No. 3	C. & I. C.	III-IV	4'	40	Pick.
Zellar-McClellan & Co.	Superior No. 5	C. & I. C.	III	3'6"	145	Pick.
Plymouth Block Coal Co.	Pan-American	C. C. C. & St. L.	III	4'	70	Pick.

## VIGO COUNTY.

Domestic Block Coal Co.	Domestic Block No. 1	C. & E. I.	IV	4'	110	Pick.
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## BITUMINOUS COAL MINES.

## CLAY COUNTY.

Vandalia Coal Co.	Vandalia No. 60	Vandalia (Main Line)	VI	7'	32	Pick.
Vandalia Coal Co.	Vandalia No. 64	Vandalia (Main Line)	VI	7'	90	Pick.
Vandalia Coal Co.	Vandalia No. 65	Vandalia (Main Line)	VI	7'	100	Pick.
Ideal Block Coal Co.	Fortner	Vandalia (Main Line)	V	3'4"	110	Pick.
Collins Coal Co.	Gifford No. 1	C. & I. C.	III	4'4"	75	Pick.
Collins Coal Co.	Gifford No. 2	C. & I. C.	III	4'6"	77	Pick.
Big Vein Mining Co.	Lewis	Southern Indiana	V	8'	107	Pick.
Vivian Mining Co.	Vivian No. 1	Southern Indiana	III	5'6"	43	Pick.
Vivian Mining Co.	Vivian No. 2	Southern Indiana	IV	5'		Pick.
Jasonville Coal Co.	Gold Knob	Southern Indiana	III	6'6"	104	Pick.
United Fourth Vein Coal Co.	Island Valley No. 4	Southern Indiana	IV	5'6"	20	Pick.
C. Ehrlich Coal Co.	Klondyke No. 2	Vandalia (Main Line)	VI	7'		Pick.

## BITUMINOUS COAL MINES—Continued.

## DAVISS COUNTY.

NAME OF COMPANY.	Name of Mine.	Railroad.	Geological number of coal seam.	Thickness of coal seam.	Depth from surface to coal seam.	Pick or machine mine.
Stucky & Osborn.....	Stucky.....	Wagon mine.....	III	3'	Drift.....	Pick.
Davies County Coal Co.....	Montgomery No. 3.....	B. & O. S. W.....	V	3'8"	100	Pick.
Mutual Mining Co.....	Mutual.....	B. & O. S. W.....	III	4'6"	100	Pick.
Mandabach Bros.....	Mandabach.....	Wagon mine.....	V	6'	56	Pick.
Wm. Winterbottom.....	Winterbottom.....	Wagon mine.....	IV	4'	40	Pick.

## FOUNTAIN COUNTY.

Rush Coal Co.....	Indo.....	Clover Leaf.....	III	5'5"	80	Pick.
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## GIBSON COUNTY.

Princeton Coal & Mining Co.....	Oswald.....	Southern.....	V	6'10"	450	Pick.
Fort Branch Coal Co.....	Fort Branch.....	E. & T. H.....	V	4'6"	282	Pick.
Massey Coal Co.....	Massey.....	E. & I.....	VI	4'6"	50	Pick.

GREENE COUNTY.

United Fourth Vein Coal Co.	Black Creek.	Southern Indiana.	IV	4'8"	82	Machine.
United Fourth Vein Coal Co.	Island Valley No. 3.	Southern Indiana.	IV	5'6"	47	Pick.
United Fourth Vein Coal Co.	Glenburn.	Southern Indiana.	IV	4'6"	102	Machine.
United Fourth Vein Coal Co.	Antioch.	Southern Indiana.	IV	4'6"	176	Pick.
United Fourth Vein Coal Co.	North Linton.	Southern Indiana.	IV	4'2"	68	Pick.
Vandalia Coal Co.	Vandalia No. 2.	I. & V. Branch Vandalia.	IV	5'	66	Pick.
Vandalia Coal Co.	Vandalia No. 3.	I. & V. Branch Vandalia.	IV	5'	81	Pick.
Vandalia Coal Co.	Vandalia No. 4.	I. & V. Branch Vandalia.	IV	5'	55	Pick.
Vandalia Coal Co.	Vandalia No. 5.	I. & V. Branch Vandalia.	IV	5'	95	Machine.
Vandalia Coal Co.	Vandalia No. 6.	I. & V. Branch Vandalia.	IV	5'	72	Machine.
Vandalia Coal Co.	Vandalia No. 8.	I. & V. Branch Vandalia.	IV	5'6"	132	Machine.
Vandalia Coal Co.	Vandalia No. 9.	I. & V. Branch Vandalia.	IV	5'	128	Machine.
Vandalia Coal Co.	Vandalia No. 21.	I. & V. Branch Vandalia.	IV	5'	95	Machine.
Midvale Coal Co.	Midvale.	Southern Indiana.	III	7'6"	217	Pick.
Indiana Southern Coal Co.	Gilmour.	Southern Indiana.	IV	5'4"	152	Machine.
Southern Indiana Coal Co.	Hoosier No. 1.	Southern Indiana.	IV	3'7"	133	Pick.
Southern Indiana Coal Co.	Hoosier No. 2.	Southern Indiana.	V	7'	46	Pick.
Southern Indiana Coal Co.	Tower Hill.	Southern Indiana.	III	7'	132	Machine.
Southern Indiana Coal Co.	Lattas Creek.	Southern Indiana.	IV	5'	153	Machine.
Summit Coal Co.	Summit No. 2.	I. & V. Branch Vandalia.	IV	5'6"	150	Machine.
Green Valley Coal Co.	Green Valley.	Southern Indiana.	IV	5'2"	121	Machine.
Vulcan Coal Co.	Vulcan.	Indianapolis Southern.	V	6'	Slope.	Pick.
Queen Coal Co.	Queen.	Southern Indiana.	IV	4'7"	87	Pick.
Indiana Fairmount Coal Co.	Letsinger.	Southern Indiana.	III	7'6"	.....	Pick.
Calora Coal Co.	North West.	Southern Indiana.	IV	5'	75	Pick.
Coal Bluff Mining Co.	Twin No. 4.	Southern Indiana.	V	6'	56	Machine.
Coal Bluff Mining Co.	Twin No. 5.	Southern Indiana.	IV	4'	152	Machine.
Mooney, Donnelly & Keers.	Mooney.	I. & V. Branch Vandalia.	IV	5'	50	Pick.

KNOX COUNTY.

Knox Coal Co.	Knox.	I. & V. (Vandalia).	V	7'	.....	Machine.
Bicknell Coal Co.	Bicknell.	I. & V. (Vandalia).	VI	4'4"	92	Pick.
Big Muddy Coal Co.	Pine Knot.	I. & V. (Vandalia).	VI	4'6"	210	Machine.
Freeman Coal Co.	Freeman.	I. & V. (Vandalia).	V	7'	234	Machine.
Washington-Wheatland Coal Co.	Wheatland.	B. & O. S. W.	VII	5'	100	Pick.
Lynn Coal Co.	Lynn.	I. & V. (Vandalia).	V	6'	200	Machine.
Tecumseh Coal Co.	Tecumseh.	I. & V. (Vandalia).	V	6'6"	156	Machine.



## BITUMINOUS COAL MINES—Continued.

## PARKE COUNTY.

NAME OF COMPANY.	Name of Mine.	Railroad.	Geological number of coal seam.	Thickness of coal seam.	Depth from surface to coal seam.	Pick or machine mine.
United Coal & Mining Co.	Mecca No. 3.	C. & I. C.	III	5'	166	Machine.
Lincoln Coal & Mining Co.	Lytford No. 1.	C. & E. I.	VI	8'6"		Pick.
Vandalia Coal Co.	Vandalia No. 317.	Logansport (Vandalia).	III	5'		Pick.
W. P. Harrison.	Harrison.	Wagon mine.	IV	4'	Slope.	Pick.
Parke County Coal Co.	Parke No. 11.	Logansport (Vandalia).	VI	8'6"	102	Machine.
Bridgeton Mining Co.	Bridgeton No. 1.	C. & I.	IV	2'6"	Slope.	Pick.
James Moore.	Moore.	Wagon mine.	IV	4'	40	Pick.
Wm. Moore.	Moore.	Wagon mine.	IV	5'	Drift.	Pick.

## PERRY COUNTY.

Bergenroth Bros.	Troy.	Ohio River transportation.	II	3'	50	Pick.
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## PIKE COUNTY.

Muren Coal Co.	Muren.	Southern.	V	4'6"	43	Pick.
D. Ingle Coal Co.	Ayrshire No. 3.	Southern.	V	5'	22	Pick.
D. Ingle Coal Co.	Ayrshire No. 4.	Southern.	V	4'8"		Pick.
S. W. Little Coal Co.	Rogers.	E. & I.	V	7'	Slope.	Pick.
D. Ingle Coal Co.	Ayrshire No. 5.	Southern.	V	5'	Drift.	Pick.
S. W. Little Coal Co.	Blackburn.	E. & I.	V	6'6"	Slope.	Pick.
S. W. Little Coal Co.	Littles.	E. & I.	V	6'6"	80	Pick.
Pokato Valley Coal Co.	Hartwell No. 1.	Southern.	V	5'	Drift.	Pick.
Pokato Valley Coal Co.	Hartwell No. 2.	Southern.	V	5'	Drift.	Pick.
W. S. Little Coal Co.	Rogers No. 2.	E. & I.	V	7'	80	Machine.

## SULLIVAN COUNTY.

Indiana Southern Coal Co.	Bunker Hill.	Indianapolis Southern.	VI	4'6"	72	Machine.
Indiana Southern Coal Co.	Caledonia.	Indianapolis Southern.	VI	5'3"	106	Machine.
Indiana Southern Coal Co.	Phoenix No. 4.	E. & T. H.	VI	6'6"		Machine.
Indiana Southern Coal Co.	Cummins.	Southern Indiana.	VII	5'	Slope.	Pick.
Indiana Southern Coal Co.	Hocking.	Southern Indiana.	VI	5'6"	80	Machine.
Indiana Southern Coal Co.	Citizens.	Southern Indiana.	VI	5'	165	Machine.
Sunflower Coal Co.	Sunflower.	Indianapolis Southern.	VI	6'		Machine.
Consolidated Indiana Coal Co.	Consolidated No. 25.	E. & T. H.	VI	5'6"	235	Machine.
Consolidated Indiana Coal Co.	Consolidated No. 26.	Southern Indiana.		5'	110	Machine.
Consolidated Indiana Coal Co.	Consolidated No. 28.	Southern Indiana.	VI	6'	200	Machine.
Consolidated Indiana Coal Co.	Consolidated No. 29.	E. & T. H.	VI	5'6"	120	Machine.
Consolidated Indiana Coal Co.	Consolidated No. 30.	E. & T. H.	VI	5'6"	197	Machine.
Consolidated Indiana Coal Co.	Consolidated No. 31.	E. & T. H.	V	6'	53	Pick.
Consolidated Indiana Coal Co.	Consolidated No. 32.	Southern Indiana.	V	7'	105	Machine.
Vandalia Coal Co.	Vandalia No. 10.	I. & V. (Vandalia).	IV	5'6"	260	Pick.
Jackson Hill Coal Co.	Jackson Hill No. 2.	E. & T. H.	VI	5'8"	104	Machine.
Jackson Hill Coal Co.	Jackson Hill No. 4.	E. & T. H.	VI	5'	155	Machine.
A. H. Whitsett Coal Co.	Shelburn.	E. & T. H.	V	6'	317	Machine.
Sullivan County Coal Co.	Freeman.	Indianapolis Southern.	VI	5'	100	Pick.
Dering Coal Co.	Dering No. 12.	E. & T. H.	VII	5'6"	80	Pick.
Dering Coal Co.	Dering No. 13.	E. & T. H.	VI	5'	144	Machine.
Dering Coal Co.	Dering No. 14.	E. & T. H.	VI	5'6"	103	Machine.
Southern Indiana Coal Co.	Semi-block.	Southern Indiana.	III	6'6"	235	Machine.
Southern Indiana Coal Co.	Mammoth Vein.	Southern Indiana.	VI	6'	173	Machine.
Shirley Hill Coal Co.	Shirley Hill No. 1.	Monon.	VI	5'6"	110	Machine.
Shirley Hill Coal Co.	Little Giant.	Monon.	VI	5'6"		Machine.
Hudson Coal Co.	Superior.	F. & T. H.	VII	5'6"	112	Pick.
Kettle Creek Mining Co.	Kettle Creek.	E. & T. H.	VI	5'3"	152	Machine.
Peabody-Alwart Coal Mining Co.	Reliance.	E. & T. H.	VI	5'	237	Machine.
Diamond Coal & Mining Co.	Hamilton.	E. & T. H.	III	6'6"	255	Machine.
United Fourth Vein Coal Co.	Black Hawk.	Southern Indiana.	III	6'4"	240	Machine.
Cloverleaf Coal Co.	Cloverleaf.	Indianapolis Southern.	IV	4'7"	307	Machine.
Carlisle Coal & Clay Co.	Carlisle.	E. & T. H.	V	5'	391	Machine.
Shirley Hill Coal Co.	Shirley Hill No. 3.	I. & V.	VI	5'6"	100	Machine.

NUMBER AND THICKNESS OF COAL VEINS.

## BITUMINOUS COAL MINES—Continued.

## VANDERBURGH COUNTY.

NAME OF COMPANY.	Name of Mine.	Railroad.	Geological number of coal seam.	Thickness of coal seam.	Depth from surface to coal seam.	Pick or machine mine.
Diamond Coal Co.....	Diamond.....	Wagon mine.....	V	4'	256	Pick.
Banner Coal Co.....	Avenue.....	Wagon mine.....	V	4'	265	Pick.
D. Ingle Coal Co.....	Ingleside.....	L. & N.....	V	4'	235	Pick.
Sunnyside Coal Co.....	Sunnyside.....	L. & N.....	V	4'	255	Pick.
Union Coal Co.....	Union.....	Wagon mine.....	V	4'	235	Pick.
Crescent Coal Co.....	Unity.....	L. & N.....	V	4'	225	Pick.

## VERMILLION COUNTY.

Dering Coal Co.....	Dering No. 5.....	C. & E. I.....	VII	4'10"	85	Pick.
Dering Coal Co.....	Dering No. 7.....	C. & E. I.....	VI	5'6"	265	Pick.
Dering Coal Co.....	Dering No. 8.....	C. & E. I.....	IV	5'6"	200	Pick.
Cayuga Brick & Coal Co.....	Eureka.....	Consumed at brick yard.....	VI	5'6"	110	Pick.
Clinton Coal Co.....	Crown Hill No. 1.....	C. & E. I.....	VII	5'	164	Pick.
Clinton Coal Co.....	Crown Hill No. 2.....	C. & E. I.....	VII	4'10"	151	Pick.
Oak Hill Coal & Mining Co.....	Oak Hill.....	C. & E. I.....	VII	6'6"	40	Pick.
Oak Hill Coal & Mining Co.....	Maple Valley No. 1.....	C. & E. I.....	VII	4'8"	.....	Pick.
Oak Hill Coal & Mining Co.....	Buckeye No. 2.....	C. & E. I.....	VII	4'10"	110	Pick.
Oak Hill Coal & Mining Co.....	Prince.....	C. & E. I.....	VI	6'	330	Pick.
Clinton Coal Co.....	Crown Hill No. 3.....	C. & E. I.....	VI	6'	340	Machine

## VIGO COUNTY.

Dering Coal Co.	Dering No. 6	C. & E. I.	VI	4'8"	110	Pick.
Chas. F. Keeler Coal Co.	Atherton	C. & E. I.	VI	6'9"	165	Machine.
Coal Bluff Mining Co.	Diamond	C. C. C. & St. L.	VI	6'	54	Pick.
Coal Bluff Mining Co.	Peerless	C. & I. C.	VI	7'	101	Pick.
Coal Bluff Mining Co.	Lawton	C. C. C. & St. L.	VI	6'6"	110	Pick.
Grant Coal & Mining Co.	Grant No. 2	C. & E. I.	VI	6'6"	120	Pick.
Dering Coal Co.	Dering No. 9	C. & I. C.	VI	6'6"		Pick.
Dering Coal Co.	Dering No. 10	C. & I. C.	VI	6'6"	Slope	Pick.
Vandalia Coal Co.	Vandalia No. 66	Vandalia	VI	6'	103	Pick.
Vandalia Coal Co.	Vandalia No. 67	Vandalia	VI	6'	110	Pick.
Vandalia Coal Co.	Vandalia No. 69	Vandalia	VI	6'	120	Pick.
Vandalia Coal Co.	Vandalia No. 80	Vandalia	VI			Pick.
Vandalia Coal Co.	Vandalia No. 81	Vandalia	VI	4'4"	80	Pick.
Vandalia Coal Co.	Vandalia No. 82	Vandalia	V	6'	105	Machine.
Coal Bluff Mining Co.	Wabash	C. C. C. & St. L.	IV	5'4"	300	Pick.
Lower Vein Coal Co.	Lower Vein No. 1	C. C. C. & St. L.	V	4'6"	201	Pick.
Miami Coal Co.	Miami No. 1	C. & E. I.	VI	7'	82	Pick.
Miami Coal Co.	Miami No. 2	C. & E. I.	VI	6'	50	Pick.
Miami Coal Co.	Miami No. 3	C. & E. I.	VI	7'	85	Pick.
Parke County Coal Co.	Parke No. 10	Logansport (Vandalia)	VI	6'6"	100	Machine.
Fauvre Coal Co.	Fauvre No. 1	Vandalia	VI	6'	90	Pick.
Domestic Block Coal Co.	Domestic Block No. 1	C. & E. I.	IV	4'	110	Pick.
Coal Bluff Mining Co.	Plymouth No. 1	C. C. C. & St. L.	III		215	Pick.
Fauvre Coal Company	Fauvre No. 2	Vandalia	V	4'6"	228	Pick.
West Terre Haute Coal Co.	Larimer	Wagon mine	VII	4'8"	110	Pick.
Deep Vein Coal Co.	Deep Vein	Vandalia	VI	6'	170	Pick.
Vigo County Coal Co.	Ray No. 2	Vandalia	VI	7'4"	95	Pick.
Indiana Southern Coal Co.	Forest	C. C. C. & St. L.	VI	6'5"	150	Machine.
Sugar Valley Coal Co.	Sugar Valley No. 1	Wagon mine	V	4'6"	185	Pick.
Coal Bluff Mining Co.	Victor	C. C. C. & St. L.	VI	6'6"	50	Pick.
Coal Bluff Mining Co.	Minshall	Big Four	III	5'	180	Pick.

## WARRICK COUNTY.

Big Four Coal Company	Big Four	Southern	V	7'	Slope	Machine.
C. Menden Coal Co.	DeForrest	Southern	V	7'	65	Machine.
John Archibald Coal Co.	Star No. 1	Southern	V	4'4"	100	Pick.
T. D. Seales Coal Co.	Electric	Southern	V	7'	30	Machine.
Worsham Coal Co.	Burke	Southern	V	4'4"	110	Pick.
Caladonia Coal Co.	Dawson	Southern	V	4'	87	Pick.
Erie Canal Coal Co.	Erie Canal	Southern	V	5'	130	Machine.
Chandler Coal Co.	Chandler	Southern	V			Machine.
Castle Garden Coal Co.	Castle Garden	Southern	V	4'	96	Pick.
Elberfeld Coal Co.	Elberfeld	E. & I.	V	4'4"	175	Pick.

## EXAMINATIONS.

Examinations of applicants of competency to serve as mine bosses, fire bosses and hoisting engineers, were held at three different times during the year of 1907. Each of the examinations were held in Terre Haute. The following table exhibits the date on which the examinations were held, the total number of candidates examined, the number passing a successful examination and the number who failed.

DATE.	Total Applicants.			Passed.			Failed.		
	M. B.	F. B.	H. E.	M. B.	F. B.	H. E.	M. B.	F. B.	H. E.
May 16.....	25	17	29	15	10	8	10	7	21
August 15 and 16.....	31	23	19	17	15	9	14	8	10
December 5 and 6.....	30	19	25	20	13	13	10	6	12
Total.....	86	59	73	52	38	30	34	21	43

The above table shows 60%+ of the applicants for mine boss, 64%+ fire boss and 41%+ applicants for hoisting engineers, passed a successful examination and received certificates.

The following is a list of the names and addresses of the successful candidates and the number and per cent. grade of each certificate issued:

## MINE BOSS.

Examination held in Terre Haute, May 16 and 17, 1907.

Total candidates, 25. Total number passed, 15.

<i>Certificate No.</i>	<i>Name and Address.</i>	<i>Per Cent.</i>
1.	William F. Brouse, Clinton.....	78
2.	Thomas Connely, Clinton .....	78
3.	Austin G. Wilson, Edwards .....	77
4.	Seth Powell, Fontanet .....	80
5.	Fred Wiggs, Muren .....	78
6.	John Dawson, Dugger .....	83
7.	Carry Littlejohn, Hymera .....	80
8.	Thomas Craig, Jasonville .....	80
9.	Edward W. Church, Linton .....	80
10.	Thomas Frankland, Sullivan .....	76
11.	Julian O'Connor, Stanton .....	84
12.	James Bennett, Cloverland .....	78
13.	Bert Budders, Linton .....	78
14.	Charles M. Mallase, Sullivan .....	76
15.	Hamilton M. Irving, Cayuga .....	85

## FIRE BOSS.

Examination held in Terre Haute, May 16 and 17, 1907.

Total number of candidates, 14. Total number passed, 10.

*Certifi-*

<i>cate No.</i>	<i>Name and Address.</i>	<i>Per Cent.</i>
1.	John Gillespie, Bicknell .....	83
2.	William C. Keller, Linton .....	84
3.	J. A. Crabb, Terre Haute .....	76
4.	William Thomson, Bicknell .....	75
5.	A. J. Barrick, Jasonville .....	80
6.	Edward G. Lewis, Sullivan .....	82
7.	Arthur Debarge, Farnsworth .....	77
8.	Charles Burris, Jasonville .....	79
9.	Alex. Hunter, Farmersburg .....	88
10.	W. M. Brown, Chandler .....	76

## HOISTING ENGINEER.

Examination held in Terre Haute, May 16 and 17, 1907.

Total number of candidates, 29. Total passed, 8.

*Certifi-*

<i>cate No.</i>	<i>Name and Address.</i>	<i>Per Cent.</i>
1.	Henry Carpenter, Linton .....	79
2.	A. J. Marshall, Sullivan .....	83
3.	James L. Murer, Linton .....	79
4.	J. L. Uland, Linton .....	80
5.	Hugh Vanlien, Clinton .....	78
6.	Andy A. Corlett, Linton .....	78
7.	H. H. Gudtin, Sullivan .....	77
8.	Frank Kimble, Princeton .....	76

## MINE BOSS.

Examination held in Terre Haute, August 15 and 16, 1907.

Total number candidates, 31. Total number passed, 17.

*Certifi-*

<i>cate No.</i>	<i>Name and Address.</i>	<i>Per Cent.</i>
16.	A. L. Rogers, Boonville .....	76
17.	George Carty, Boonville .....	83
18.	Charles Burris, Jasonville .....	76
19.	Benjamin Mills, Edwards .....	86
20.	William J. Roberts, Burnett .....	81
21.	Robert Hughes, Seeleyville .....	84
22.	James C. Bennett, Fontanet .....	81
23.	Neil O. Gray, Indianapolis .....	87
24.	Harry Moore, Clinton .....	82
25.	W. H. Taylor, Shelburn .....	86
26.	Philip Badenbarger, Brazil .....	80

<i>Certificate No.</i>	<i>Name and Address.</i>	<i>Per Cent.</i>
27.	James Callaway, Linton .....	80
28.	William Stull, Linton .....	87
29.	Charles W. Kirk, Jasonville .....	81
30.	Richard Anderson, Clinton .....	76
31.	Charles Clayton, Fontanet .....	76
32.	J. E. Cochran, Sullivan .....	80

## FIRE BOSS.

Examination held in Terre Haute, August 15 and 16, 1907.

Total number of candidates, 23. Total number passed, 15.

<i>Certificate No.</i>	<i>Name and Address.</i>	<i>Per Cent.</i>
11.	William Babbitt, Shelburn .....	83
12.	James Robertson, Bicknell .....	88
13.	Lon Shaw, Boonville .....	75
14.	W. W. Dean, Chandler .....	80
15.	Rice M. Hughes, Burnett .....	80
16.	William Ross, Fontanet .....	77
17.	William Brown, Chandler .....	87
18.	Henry Nocus, Jr., Linton .....	83
19.	Henry Nocus, Sr., Linton .....	78
20.	Charles Troye, Linton .....	80
21.	L. M. McDonald, Jasonville .....	76
22.	Dan Thomas, Seeleyville .....	80
23.	Morgan Russer, Rosedale .....	78
24.	Jno. W. Miller, Chandler .....	76
25.	Hamilton M. Irving, Cayuga .....	88

## HOISTING ENGINEER.

Examination held at Terre Haute, August 15 and 16, 1907.

Total number of candidates, 19. Total number passed, 9.

<i>Certificate No.</i>	<i>Name and Address.</i>	<i>Per Cent.</i>
9.	Daniel Page, Linton .....	79
10.	Samuel Dugger, Clinton .....	76
11.	C. B. Seeley, Fontanet .....	80
12.	Lewis W. Boles, Sullivan .....	80
13.	H. Mitchell Bradford, Linton .....	85
14.	John T. Bennett, Linton .....	82
15.	Jeff Thompson, Center Point .....	85
16.	Frank Earle, Linton .....	81
17.	William Combs, Coalmont .....	79

## MINE BOSS.

Examination held at Terre Haute, December 5 and 6, 1907.

Total number of candidates, 36. Total number passed, 20.

*Certifi-*

<i>cate No.</i>	<i>Name and Address.</i>	<i>Per Cent.</i>
33.	Solomon Deeble, Carlisle .....	82
34.	W. J. Williams, Carlisle .....	80
35.	Joe Robertson, Clinton .....	77
36.	Jesse Hamilton, Linton .....	80
37.	John James, Jasonville .....	77
38.	Preston Usrey, Linton .....	76
39.	William Wills, Linton .....	81
40.	George Fick, Terre Haute .....	90
41.	Clifford Hoffman, Brazil .....	83
42.	John Edward Haag, Bicknell .....	79
43.	Herbert Massie, Chandler .....	85
44.	John William Moss, West Terre Haute.....	75
45.	John Patton, Boonville .....	78
46.	John Smith, Jackson Hill .....	80
47.	Wm. Steinsberger, Brazil .....	76
48.	Alex. Davidson, Shelburn .....	82
49.	J. E. Mason, Brazil .....	76
50.	Walter W. Wills, Linton .....	82
51.	William Huntley, West Terre Haute .....	76
52.	Henry Horn, Princeton .....	80

## FIRE BOSS.

Examination held in Terre Haute, December 5 and 6, 1907.

Total number of candidates, 19. Total number passed, 13.

*Certifi-*

<i>cate No.</i>	<i>Name and Address.</i>	<i>Per Cent.</i>
26.	George Epperson, West Terre Haute .....	89
27.	Hugh Walker, Jasonville .....	76
28.	James W. Mason, Boonville .....	89
29.	John Walters, Coalmont .....	78
30.	Herbert Massie, Chandler .....	80
31.	James Mahaffey, Boonville .....	80
32.	Jno. W. Cooper, Linton .....	80
33.	William Samson, Linton .....	80
34.	Jesse Hamilton, Linton .....	80
35.	Charles F. Hill, West Terre Haute.....	87
36.	Jno. Gardner, Jasonville .....	77
37.	Ebert Hammack, Chandler .....	80
38.	Emelien LeCoeg, Antioch .....	82



## HOISTING ENGINEER.

Examination held at Terre Haute, December 5 and 6, 1907.

Total number of candidates, 23. Total number passed, 13.

*Certifi-*

<i>cate No.</i>	<i>Name and Address.</i>	<i>Per Cent.</i>
18.	Charles Good, Carlisle .....	81
19.	W. F. Deeble, Carlisle .....	79
20.	John L. Rector, Sullivan .....	83
21.	W. A. Haworth, Caledonia .....	79
22.	David Shepard, Evansville .....	82
23.	James H. Haseman, Linton .....	81
24.	Pearl O. Dunn, Linton .....	78
25.	Martin Shable, Linton .....	79
26.	Albert Robinson, Carbon .....	77
27.	Leon Coons, Montgomery .....	82
28.	Frank Dew, Jasonville .....	76
29.	Joseph McPherson, Carlisle .....	77
30.	Milton C. Griffith, Carlisle .....	81

## CASUALTIES TO MINE EMPLOYEES.

It is the duty of this department, under the statutes of Indiana, to investigate each accident to mine employes, where the attendance of a physician or surgeon is required. Under the same statute, the person in charge of each mine is required to notify the Inspector of Mines of such accidents, without delay. A strict compliance with the statute has been a serious problem with the department in the past, and because of the following reasons we have been unable to give a complete account of all such accidents, in our former reports:

Owing to the large number of new mines opened during the six years preceding 1907 and the increased number of inspections to be made, with other duties incident thereto, and an insufficient number of assistants in the department to perform these increased duties and inspections. This caused us to be unable to make sufficient inquiries concerning accidents. And because of the fact that several days' attendance in the courts is usually required of us, in each prosecution, we were unable to file prosecutions and follow them up against coal companies or mine bosses for failure to report. For these reasons we were able to secure reports of only about one-half of the accidents to mine employes. The increase in our force of two additional assistants, made by the last Legislature (the same taking effect April 10, 1907), has enabled us

to give the matter closer attention during that year and compel companies and mine bosses to report all accidents required by law. As a result the number of accidents shown in the report would indicate to persons not conversant with the situation, a large increase in the number occurring over former years. Through our inspections and prosecutions made and the reports of mine bosses we show an aggregate of five hundred and four (504) accidents to employes classed as follows:

Fatal, fifty-three (53); persons permanently disabled, nine (9); serious accidents, two hundred seventy-one (271), and minor, one hundred seventy-one (171). The different causes of these accidents are shown in the annexed table.

TABLE

*Exhibiting the Number of Fatal, Permanent, Serious and Minor Accidents Occurring in Indiana Mines During the Year 1907, and the Different Causes of Such Accidents.*

NATURE OF ACCIDENT.	Fatal.	Per- manent.	Serious.	Minor.	Total.
Falling coal.....	1		25	14	40
Falling slate.....	15	3	71	40	129
Kicked by mule.....	1		11	9	21
Injured by mine cars.....	8	1	88	73	170
Injured by mining machines.....			11	6	17
Smoke explosions.....	2		13		15
Explosions of blasting powder.....	12	3	6		21
Explosions of fire damp.....	2	1	11	4	18
Premature shots.....	1		7		8
Delayed shots.....	2		1		3
Shots blowing through pillars.....			2		2
Misplaced, windy or blowout shots.....	1		1		2
Ascending cage.....	3			1	4
Descending cage.....	1		3		4
Falling down shaft.....	1				1
Coal falling down shaft.....			4	2	6
Injured by mine motors.....	1	1	2	1	5
Injured by railroad cars.....	2		1	2	5
Miscellaneous.....			14	19	33
Grand total.....	53	9	271	171	504

### DESCRIPTION OF FATAL ACCIDENTS.

Each of the above fatal accidents have been investigated by this department, acting in conjunction with the Coroner of the county wherein the accident occurred. We have also investigated each of the accidents to persons permanently disabled and all other serious accidents, as far as possible.

The following brief description of fatal accidents, sets forth by months and by counties, a detailed statement of facts and circumstances brought forth at such investigations.

## JANUARY.

Sixteen deaths are recorded during this month, the first of which was the death of Otto Saxeburgh, shot firer, 33 years of age, single, who was killed on the 5th inst., in an explosion caused by a windy shot, in the Maple Valley Mine, Vermillion County. From evidence adduced at the investigation of the accident, and an examination of the mine, made by Assistant Inspector Robert Irving and myself, we learned the following: Saxeburgh and one other person were employed to do the shot firing after the miners and other workmen had left the mine, and that all the shots in the mine were tamped on fuse; also, that in firing the shots it was customary for the shot firers each to begin at a given point and continue lighting shots, one after the other, as long as there was any to light, not waiting for those previously lighted to explode. On examination, we found a number of shots in violation of the law, some of which were drilled three feet or more past the cutting or loose end; some over the maximum thickness, measured at right angles to the drill-hole and others heavily overcharged. One of the first-named, located in a narrow room-neck, on the fourth south cross-entry, was drilled three feet past the cutting or loose end, and had seamed or blown out and was evidently the cause of the explosion. The two men had commenced the shot firing at about 4 o'clock p. m., and at about 7:30 o'clock had nearly completed their work, having fired probably 150 shots. This large number of shots fired in so short a time filled the mine with a dense body of heated powder-smoke. Added to this, a large quantity of fine coal dust, thrown into the atmosphere from the drill holes, where it had been used for tamping, created a deadly mixture, ripe for the results which followed.

At the time of the accident, deceased was lighting the shots near the head of the entry, and his buddy a number of rooms further down, toward the mouth of the entry. When the shot was fired in the room-neck above referred to, it resulted in a blown-out shot, the flame of which was projected into the mixture just mentioned and a heavy explosion took place, the force of which extended down the entry about 1,000 feet from the face. Saxeburgh was found a short time later by a searching party, in the second room outside the room-neck, dead, having succumbed to the after-damp. His buddy, though somewhat affected by the smoke and after-damp, suffered no serious injury.

January 8th, Samuel Adams, top laborer, 60 years of age, was killed by falling down the hoisting shaft of the Vandalia No.

316 Mine, Parke County. Decedent was employed to do general work around the top of the mine, i. e., to look after the railroad cars, send timbers into the mine, unload dirt cars, etc. On the morning of his accident, wishing to return an empty dirt car into the mine, which had been hoisted the previous night, he opened the gate to the east compartment of the hoisting shaft at the surface landing and called to the cager in the bottom, asking for an empty cage. The cager called back, saying he would send up the west cage, which was then on the bottom. Adams then opened the west gate and leaving both gates standing open, walked back to where the empty car was standing, just outside the points of the two switches leading one to each compartment of the shaft and placing his back against the car, began pushing it, as he supposed, in on the west switch. The car, however, took the east switch, and having his back toward the shaft, this fact was not noticed by decedent until he pushed it over into the east compartment, which was then empty. Losing his balance, he fell with the car down to the top of the east cage, a distance of about 100 feet, killing him instantly. Long and constant association with one particular class of work, no matter how hazardous, usually renders workmen careless and indifferent to attending dangers, which fact is evident in this instance. Had deceased closed the east gate before leaving the shaft, or had he pushed the car, with his face toward the shaft, this accident would not have occurred. He leaves a dependent wife.

January 9th Peter Gebhart, German, timberman, 39 years of age, was killed by falling slate and timbers in the Oswald mine. Gibson County. Gebhart and a number of other workmen were engaged, on the evening of above date, removing some cross-bars and loose slate for the purpose of making room for a siding or double parting. Owing to the extreme weight on the cross-bars, it was necessary to cut the bars, or legs, under them partially in two, thus weakening them so they would break off the weight on them or could be knocked out easily. At about 6 o'clock p. m. Gebhart was cutting one of the legs under a bar with an axe, and had weakened it sufficiently, as the mine boss thought, to render it dangerous, and he ordered Gebhart to quit chopping. Decedent, however, persisted in striking a few more blows with the axe, when suddenly, without warning, the leg gave way, causing the bar and the slate overhanging it to fall on him, killing him instantly. A conformance on the part of deceased to orders given him by the person in charge would have saved his life. Gebhart leaves a wife and three children.

January 12th George Howard, American, driver, aged 18 years, single, was killed by being run over with a mine car in the Hudson mine, Sullivan County. From evidence adduced at the investigation of the accident, it was learned that Howard was not an experienced driver, having driven but a very short time, and was not thoroughly familiar with such work. It further developed that there was a short hill or grade in favor of the loaded cars, on one of the entries from which he was hauling coal; also, that when coming down this grade with a loaded trip it was necessary to use spraggs in the cars, although some of the drivers did not do so. At about 2:30 o'clock p. m. decedent was coming down this grade with one loaded car, riding in the manner drivers usually ride, i. e., by standing with one foot on the draw-bar of the car and one on the tail chain. Acting under the precedent set by other drivers, he used no spraggs, and when about 10 feet from the top of the hill, by which time the car was traveling very fast, he in some way lost his footing, falling under the car, and was dragged about 60 feet. When found he was lying under the car dead. He leaves a dependent father and mother.

January 14th marks the date of one of the most disastrous mine accidents occurring in the history of the State. Between the hours of 6 and 7 o'clock a. m. of this date, just at a time when the workmen were entering the mine preparatory to beginning the day's work (fortunately few had reached their working places, otherwise the loss of life would have been appalling), an explosion of unusual violence occurred in the south workings of the Dering No. 7 Mine, Vermillion County. This explosion resulted in the death of seven persons, five of whom were taken out of the mine dead and two so badly injured that they died a short time later. Robert M. Irving and Jonathan Thomas, my two assistants, and myself arrived at the mine at about 1 o'clock a. m. of the 15th, and together with the mine boss, mine committee and a number of other persons, made a careful examination of the mine for the purpose of ascertaining the cause and character of the explosion, i. e., whether it was an explosion of fire-damp, powder or coal dust, or a combination of the three elements, and also to learn, if possible, at what point the explosion originated. All of the dead bodies and the injured, as well as the uninjured, had been removed from the mine before this time. In addition to the inspection made by us, a most careful inquiry and examination was made for the same purpose the following day by Messrs. James Taylor, Inspector of Mines, Peoria, Illinois; Geo. M. Rice, Mining Expert, Chi-

cago, Illinois; Evan D. John, Ex-Inspector of Mines, Carbondale, Illinois, and the following named superintendents of Indiana mines: John A. Templeton, superintendent Coal Bluff Mining Company; P. J. Mooney, superintendent Brazil Block Coal Company; Herbert Woolley, superintendent Dering Coal Company, and Henry Payne, superintendent Charles F. Keeler Coal Company. Beyond the fact that the explosion took place somewhere in the south workings, and affected a considerable area of both the main south entry and air course, we were unable to determine the exact cause or character of the explosion nor its point of origin. It was the general opinion of both examining parties (the mine committee excepted) that powder was the chief if not the sole agent in the explosion. The mine committee and a number of miners contended that the explosion was due to coal dust and fire-damp. While it is true an exceedingly small per cent of gas was occasionally noticed in the mine, coming from drill holes, old powder cracks, etc., such as is found in numerous so-called non-gaseous mines, and the mine was very dry, with considerable dust on the roadways, yet this dust was so highly impregnated with fire-clay from the mine floor it would scarcely burn when thrown on a fire, much less explode. Again, referring to the gas, it must be remembered that all of the brattices between the main entry and air course, as well as the doors and a part of the brattices on the cross-entries, were destroyed in the explosion, thus shutting off the ventilating current from all the working places in that part of the mine, and that this condition prevailed from the time of the explosion until we made our examination on the morning of the 15th, a lapse of some 18 hours. Notwithstanding these facts, we found not the slightest trace of gas, except in the faces of two of the most remote working places in that part of the mine, and the quantity there found was so small as to be barely perceptible in the safety lamp. The debris in these places was thrown toward the faces, indicating that the force came from the outside. There was a total absence of soot or charred particles of coal usually found adhering to the roof or sides of the entries or to the timbers, where coal dust has been prominent in an explosion. This combination of facts would indicate that neither fire-damp nor coal dust served as active agents in this explosion. On the other hand, in support of the contention that the explosion was due to blasting powder, we will consider the following: First, the debris was swept in different directions at different points on the same entry; for instance, on the main south, beginning at the mouth

of 7 and 8 east, everything was swept toward the mouth of the entry, while farther up the entry a few hundred feet it was swept toward the face. At the face of the entry the debris was thrown outward. This same feature was true of the brattices between the two entries, i. e., some were blown in one direction and some another, indicating that several explosions, each independent of the others, had occurred at different points. Second, the unusually large number of kegs of powder used daily in the mine, each miner having from one to two full kegs in his working place, which would mean anywhere from 75 to 100 kegs in that section of the mine on the morning of the explosion. Third, these kegs are usually placed along the roadway, frequently with a large pick-hole, open, in the top of the keg. Fourth, very few kegs containing powder were found after the explosion. Fifth, an unusually large number of empty kegs, bursted from the inside, were found scattered throughout the entire affected district. Sixth, a fact not proven, but fairly well established, is that miners frequently carried powder into the mine in cloth sacks, in dinner pails and in their pockets, also that dynamite and dynamite caps were smuggled into the mine at times, to be used in conjunction with the blasting powder. Seventh, there was undisputable evidence that a large quantity of powder had been exploded at several points. Eighth, the dense volume of smoke said to have followed the explosion. Combining all of the above with the utter disregard displayed by miners for all law, either common or statutory, in handling and using powder, should be evidence preponderant to an unprejudiced mind that blasting powder, exploded in some unknown manner, was the prime, if not the sole agent in this explosion. The following are the names and nationality of those killed, also the number of dependents left by each:

<i>Name.</i>	<i>Nationality.</i>	<i>Dependents.</i>
Ed Wulf .....	Polish .....	Mother.
J. Phasto .....	Polish .....	Wife.
J. Joseph .....	Polish .....	Wife and 3 children.
T. Halenk .....	Polish .....	Wife and 1 child.
J. Brugus .....	German .....	Unknown.
H. Shonen .....	Finlander .....	Mother.
Leo Pike .....	Polish .....	Wife.

On the same date as above, Robert Johnson, miner, 30 years of age, was killed almost instantly by a blast in the Twin No. 4 Mine, Greene County. This accident occurred at 3:30 o'clock p. m. (firing time), and was due to what might be termed a prema-

ture shot. Johnson at the time he met with his accident was assisting a neighbor miner, Nat Sewell, in firing his shots, two in number. The shots were both tamped on fuse, one on the right and one on the left side of the room, and each man was to light a shot. The fuse on the left lighted readily, but the one on the right was slow to ignite and apparently did not catch. When they had waited until they thought they would be in danger from the shot first lighted, they ran to a place of safety, where they waited until it had exploded, immediately after which they ran back to light the remaining one, and when within eight or ten feet of the shot it exploded, the flying pieces of coal striking Johnson, injuring him so that he died within a few minutes. Sewell was also seriously injured. Decedent leaves a wife and one child. The use of fuse in shot firing has been so thoroughly condemned in our past reports that comments on this accident are not necessary.

January 15th Stephen Sacery, miner, 40 years of age, single, was instantly killed by an ascending cage in the Buckeye Mine, Vermillion County. From evidence adduced at the investigation of the accident it was learned that at about 3:45 o'clock p. m. decedent and three other persons came to the bottom of the shaft and gave the engineer two bells, notifying him they wished to come up out of the mine. On receiving the return signal, three bells, from the engineer, the four men got on the cage and gave one bell to hoist. When the cage reached the surface it was discovered Sacery was missing, and on returning to the shaft bottom a searching party found him lying in the sump, his head almost severed from the body. The three men who were with him testified he got on the cage with them and that they did not see him get off the cage or fall, and the first they knew of his absence was when the cage reached the surface. The general opinion of those present was that decedent had forgotten something and stepped off the cage to get it, and was in the act of stepping back on the cage just when the engineer started to hoist, he being but partially on the cage, was caught against the brow timber with the above result.

January 16th William Metcalf, miner, 22 years of age, single, was killed by falling slate in the Cummins Mine, Sullivan County. About 9:30 o'clock a. m. decedent was engaged in mining off a loose shot, when suddenly, without warning, a large piece of slate of roll formation, measuring 9 feet in length, 4 feet wide, 18 inches thick in the center, gave way, falling on him and killing him in-



stantly. Deceased was considered a very careful miner, and his working place was timbered securely to within a few feet of the face. Two props had been set under the slate which fell on him. These props had been set under the thin edge, however, and the extra thickness and weight in the center of the piece of slate crowded the props out, permitting it to break off near the coal.

January 22d two shot firers, Mike Lyynskie, 39 years of age, wife and one child, and John Paska, 26 years of age, wife and three children, were killed by after-damp, resulting from a smoke explosion in the Dering No. 15 Mine. On investigating this accident it was learned an explosion occurred in this mine early in the evening of the 21st which did considerable damage. Luckily the shot firers were in a place of safety when it took place and escaped without injury. The mine was in such condition after the explosion, however, that they were compelled to leave it with their work about half completed, about one-half the shots not having been fired. On the afternoon of the day following the two men had gone into the mine for the purpose of firing the remaining shots, commencing the work about 3:20 o'clock p. m., and had fired some dozen or fifteen of the shots when a second explosion of terrific force took place. Unfortunately, the same precautions had not been taken as on the previous occasion, that is, the shot firers had not secured themselves in a safe place, and when found about 5 o'clock p. m. by a searching party both were dead, having succumbed to after-damp. It developed on inspecting the mine after the latter explosion that some sixty or seventy shots had been fired, and two-thirds at least of them were illegal. Some of them were drilled four feet and over, past the cutting or loose end. Some were six feet and more in thickness, measured at right angles to the drill hole, and others were excessively overcharged with powder. The latter generated large volumes of heated powder smoke, and the former not only added to this, both in volume and intensity of heat, but in many instances seamed or blew out the tamping, thus adding a variable quantity of fine heated coal dust to the smoke, and the flame from one of the blown out shots being projected into this mixture, but one result could possibly follow, viz., an explosion which resulted in the loss of two more lives, added to the long list of those sacrificed to the lawless methods of miners in using powder and drilling and placing shots.

## FEBRUARY.

One fatality occurred in this month. Charles Harting, a timberman, 57 years of age, was killed by falling slate on the 6th inst. in the Vandalia No. 40 Mine, Knox County. Decedent was last seen alive a few minutes after 1 o'clock p. m. At that time he was engaged in examining and testing a piece of loose slate overlying a room parting on one of the cross-entries. At this time a fellow-workman by the name of Lawton was standing by, and after warning deceased to be careful, that the slate was dangerous, and deceased replying that he knew it was, he (Lawton) continued on his way to another part of the mine. Some little time had elapsed, and no one having seen Harting, a search was made, and when found he was lying dead under a piece of slate 3 feet wide, 12 feet long and 6 inches thick, his neck broken. No eyewitness being present, it was not known just at what time the accident occurred. He leaves a dependent wife.

## MARCH.

Five fatalities is the record for this month. The first two were the result of the same accident, which occurred on the 12th inst. in the Brazil Block No. 4 Mine, Clay County. David Hill, miner, aged 23 years, single, and Thomas Roberts, 19 years of age, single, miner, were fatally burned in an explosion of powder. Edwin Roberts, brother to deceased, was seriously burned in the same explosion. From evidence brought out at the investigation of the accident it was learned that the three men were working in adjoining places and kept their powder, paper and other supplies in the same place. About 3:10 o'clock p. m. of above date they were making up their powder, preparatory to tamping their shots, and wishing to open a fresh keg of powder which was setting near by, Hill struck a hole in the top of the keg with a pick. A spark generating from the contact of the steel and iron, exploded the powder, burning Hill so badly that he died the following day at the St. Anthony Hospital in Terre Haute, where he had been taken for treatment. Thomas Roberts died on the 19th following from injuries received.

On March 19th Francis Padget, flat trimmer, 37 years of age, married, who leaves a dependent wife and four children, was fatally injured by being crushed between two railroad cars in the yards of the Little Giant Mine, Sullivan County. At the time of his accident (11:30 a. m), Padget was standing partially between two

flat cars, one of which was empty and the other under the dump being loaded. The two cars stood but a few inches apart, and decedent was attending to some trivial repair on the drawbar of one of them and did not notice a third empty car being brought down to the tipple on the same track as the ones he was standing between. His buddy, Jonathan Price, who was in the first car, noticed it, however, just as the two cars were about to strike, and called to him to get out of the way. In his excitement and not knowing which track the third empty was coming on, he jumped between the first and second cars just as they were driven together by the third, and was caught between the two drawbars and crushed so badly that he died three hours later.

March 28th Matto Gentile, miner, 35 years of age, single, was killed almost instantly by an ascending cage at the bottom of the hoisting shaft of the Crown Hill Mine, Vermillion County. At 3:30 o'clock p. m., quitting time for all labor in or about the mine except the hoisting engineer, the miners and other workmen had congregated at the bottom of the shaft as usual, waiting to be hoisted out of the mine. The State law at that time prohibited more than six persons from riding on a cage at one time, and in order that the statute be complied with, as well as for the general safety of employes, the mine management required the cagers to remain on duty to see that only the proper number of persons would attempt to ride on the cages and to give the proper signals to the hoisting engineer until all men were hoisted out of the mine. This custom was being observed as usual on the evening of the accident, and several cage loads of men had been hoisted by 3:45 p. m. At this time the east cage was on the bottom and the cager, Elmer Thomas, had given the engineer the proper signal (two bells) signifying men were coming up, and at the same time warned the men to keep back and not attempt to get on the cage until the return signal (three bells) from the engineer was given, indicating that he was in readiness to hoist. Decedent, in his hurry to get out of the mine, gave no heed to the cager's warning, and not waiting for the return signal from the engineer, attempted to get on the cage. The engineer, through some error, started to hoist the cage without giving the return signal. Just as Gentile had gotten partially on the cage it was hoisted up, catching him between the brow timbers and the bottom of the cage, crushing his skull and otherwise injuring him so that he died about fifty minutes later. Conformance to statute and obedience to orders

given by the proper person in charge would have prevented this accident.

March 30th Harry Smith, driver, 25 years of age, who leaves a wife and one child, was killed by falling slate in the Oak Hill Coal Company's Mine No. 50, also in Vermillion County. Decedent and his two brothers, William and J. L. Smith, were engaged on the evening of the above date cleaning up a heavy fall which occurred on one of the main haulage roads. About 4 o'clock p. m., while they were loading a car of dirt, a large piece of slate eight feet long, three and one-half feet wide and eight inches thick suddenly gave way, falling on and catching decedent's head against the side of the car, killing him instantly. His two brothers were also struck by the slate and painfully injured, although both were able to walk home.

#### APRIL.

One fatal accident occurred in this month, that of Daniel O'Donnell, driver, 25 years of age, single, who was killed instantly by being run over with a loaded mine car on the 25th inst. in the Lattas Creek Mine, Greene County. At the time he met with his death deceased was coming out of a cross-entry with a spike team (two mules) and one loaded car, riding with one foot on the tail chain, the other on the car bumper, and while coming down a short grade of about one per cent, his mules traveling in a slow trot, he in some way lost his footing and fell under the rapidly moving car, which dragged him a short distance and ran almost completely over him. When found he was lying dead with about half his body protruding from under the rear end of the car. He leaves a dependent mother in the State of Ohio.

#### MAY.

One fatal accident is the record for this month. Leo Huff, top man, 28 years of age, leaving a dependent wife and three children, was killed on the 27th inst. by a railroad car in the yards of the T. D. Seales Coal Company's electric mine, Warriek County. Decedent was employed at general work around the top of the mine, and on the above date was bringing an empty flat car to the tippie. When he attempted to apply the brake to stop the car the chain connecting the brake rod and beam either gave way or had been previously broken, causing him to lose his balance and fall down on the rail in front of the car, which ran over him,

mangling both legs and one arm and inflicting injuries of which he died a short time later.

Note.—This casualty, together with that of Thomas Padget, should be reported as railroad accidents, but owing to the fact that they were mine employes we include them in the list of mine casualties.

#### JUNE.

Two fatal accidents occurred in this month. The first one on the 17th inst., when George Wyrick, miner, 62 years of age, was killed by falling coal in the Vandalia No. 50 Mine, Clay County. At the time he met his death decedent was engaged in under-cutting a standing shot, and had nearly completed his work when a large mass of top coal overhanging his place suddenly gave way, falling on him, crushing his head almost into a pulp. There were no eyewitnesses to the accident, but it is supposed it was due to the fact that decedent was partially deaf and did not hear the noise of the coal breaking prior to falling. He leaves a dependent wife and one child.

June 22d Hiram Miller, loader, aged 64 years, leaving a dependent wife, was fatally injured by falling draw slate in the Indiana Southern Coal Company's Forest Mine, Vigo County. At about 12:45 o'clock, noon, decedent was preparing some dummies for the purpose of tamping a shot, and while so engaged he was sitting directly under the slate which caused his death and which he knew to be loose. Suddenly, without warning, the slate gave way and a large piece, measuring ten feet in length, five feet wide and six inches thick, fell on him, crushing his chest and breaking both legs in several places. His injuries were so serious that he died ten minutes later. There were a number of props and cap-pieces available near the scene of the accident, and considering the length, breadth and thickness of the slate, two or more of them should have been set under it. Had this been done the accident in all probability would not have occurred.

#### JULY.

Seven fatalities is the record for this month. On the first day of the month two Italian miners, whose names were Pietro Bartalonia, 22 years of age, single, and Silvio Senlensky, 27 years of age, who leaves a wife and two children, were fatally burned in an explosion of powder in the Dering No. 5 Mine, Vermillion County. There were no eyewitnesses to this accident, and in addition to the

fact neither of the men could speak the English language intelligently, they were both in such condition they could give no explanation whatever concerning the accident before their death. On investigation it was learned that the two were working buddies, having two adjoining rooms, Nos. 4 and 5, on the sixth southwest cross-entry, and that on the morning of the day of the accident they had taken into the mine two fresh kegs of powder. The accident occurred about 12:30 o'clock, noon, this hour being usually employed by miners in making up their cartridges, charging and tamping shots, etc. On inspecting their respective working places we found one of the powder kegs empty and two shots ready to fire in room No. 4. In room No. 5 we found a shot on the east side of the room which had evidently been fired since any other work had been done in the room. A shot was drilled ready to tamp on the west side of the room, and lying on the floor near the mouth of the drill hole we found their tamping tools and a quart can, such as miners use in filling cartridges, and an empty powder keg, burst from the inside, indicating that they were engaged in charging this shot when a spark from a lamp or other cause exploded the powder either in the quart can or the keg, more than likely the former, this in turn exploding the keg. Although known to be seriously burned, it was not thought at the time either of the men were fatally injured. Senlensky was taken to his home in Clinton, where he died at 10 o'clock p. m. of the same date. Bartalonia was taken to the St. Anthony Hospital in Terre Haute, where he died at 4 o'clock p. m. of the following day. An observance of the statute requiring a lamp or any other thing containing fire to be kept no nearer than six feet to powder when making up cartridges or charging shots would have prevented this accident.

July 5th James Donahay, road man, 45 years of age, who leaves a wife and five children, was killed by falling draw slate and coal in the Miami No. 2 Mine, Vigo County. Decedent was engaged about 10 o'clock a. m. laying a room parting on one of the cross-entries, and in order to make room for the parting ties, found it necessary to under-cut the coal seam at the corner of the room pillar. A shot had been previously placed behind this corner, and a portion of the lower bench of the coal seam had been mined off and loaded out by the miner who turned the room, leaving a ledge of the upper bench, together with some loose draw slate, hanging out over the point where the ties were to be placed. Before commencing to mine, Donahay sounded this overhanging ledge with a

pick, and thinking it safe, proceeded to mine off the lower portion of the seam. The coal and slate were evidently much looser than he supposed, as he had struck but a few blows with the pick when the entire mass gave way, falling on him and killing him instantly.

On the same date as above accident Archie Hunter, a top laborer, 18 years of age, single, was killed instantly by a descending cage at the surface landing of the Tecumseh Mine, Knox County. This shaft was sunk but recently and little had been done in the way of development. The signal bells, speaking tube, gates and other detail of equipment were not yet complete, and but five persons were employed on each shift, two at the top of the mine and three in the bottom, who were driving entries, sinking the sump and other work incident to opening, equipping and developing a new mine. The signal bells not being in position, Hunter was employed to take the place of this part of the equipment, i. e., he would transmit by word of mouth or by gesture, to and from the men in the bottom of the hoisting shaft and the engineer, the necessary signals to hoist or lower the cages, the same as is usually done at all new mines when breaking away from the bottom. It was customary, when about to fire a blast in the bottom, for the miners to get everything in readiness and notify the top signal man, who in turn would notify and have the engineer at his post and call back to those in the bottom when all was ready, after which they would light their shot, get on the cage and call "hoist away." At about 8:30 o'clock p. m. a blast had been made ready to fire, and David Gibson, one of the miners, stepped on the west cage, which was then on the bottom, and called up to Hunter, asking if he was ready. Hunter, seeing the engineer at his post, replied in the affirmative, but at this point seems to have become confused, as he gave the engineer the signal to hoist without first having had word from those below to do so. The engineer, immediately upon receiving the signal, hoisted the cage to the surface, Gibson still remaining aboard, and when he stepped off the cage found Hunter lying dead by the side of the east hoisting compartment, his head crushed. It is presumed decedent discovered his error just about the time the engineer began to hoist, and in his excitement, wishing to ascertain if any damage was being done those below, unthoughtedly leaned out over the shaft under the east cage, which was then above him, and was struck by it in descending. He leaves a father and mother partially dependent on him for the support of younger brothers and sisters.

July 8th Homer Trueblood, loader, 18 years of age, single, was

killed by falling slate in the Mammoth Vein Mine, Sullivan County. On investigating this accident it was learned that decedent and a fellow-miner by the name of Mack Smith were working buddies, loading coal together, having two working places, rooms 1 and 2, on the third northeast cross-entry. On the day of the accident they were loading in room No. 2, and had loaded nine cars of coal, working under slate, which they knew to be loose and which in fact they tried to pull down, at about 11:30 o'clock a. m. On failing to get the slate down, Smith then advised Trueblood to set some props under it. Trueblood, replying it would not fall for a while, continued with his other work. Smith had gone into room No. 1 for the purpose of drilling some holes, leaving Trueblood at work mining off some loose coal. While so engaged, a few minutes after 1 o'clock p. m. a large piece of the slate 8 feet in length, 6 feet wide, ranging from 3 to 10 inches in thickness, gave way, falling on him, crushing his skull, breaking his neck, killing him instantly. He leaves a father, mother and three younger brothers who were practically dependent on him for support.

July 19th Will Richardson, driver, 25 years of age, single, who leaves a dependent mother, was fatally injured in the Lattas Creek Mine, Greene County. Decedent was going into one of the cross-entries at about 9:30 o'clock a. m. with an empty mine car and a mule. At the time he was riding on the front end of the car. According to his statement the mule kicked him in the side, knocking him over between the car and the entry-rib, where he was caught and crushed through the hips. Confirming this statement, a large discoloration, made by the imprint of the mule's foot, was found on his side, while his badly torn clothes, as well as severe bruises on his limbs and body, were evidence of his having been dragged between the car and the side of the entry. The space between the entry-rib and the side of the car at this point was about 12 inches, and had he been caught in the right position in the space he could easily have sustained a fatal injury, yet which injury caused his death, i. e., the injury received from being kicked by the mule or from being caught between the car and entry-rib, an autopsy alone could determine. Shortly after being injured he lapsed into unconsciousness, in which state he remained until his death, which occurred at 1:05 p. m. of the same date.

July 24th Joso Bieam, miner, 34 years of age, Austrian, was killed by falling slate in the Dering Mine No. 7, Vermillion County. From evidence elicited at the investigation and an inspection of decedent's working place it was learned that the mine boss had



visited Bieam on the morning of the above date, and had noticed some very loose draw slate, which he ordered him to timber and which Bieam agreed to do, after which the boss continued on his way through the mine. This conversation occurred at about 8:30 a. m., and was the last seen of Bieam by the mine boss until his death. About 11:30 a. m., while he was loading a car, a piece of the slate 6 feet long, 6 feet wide and 5 inches thick fell on him and killed him instantly. At the time of the accident Luke Surlos, Austrian, was working with him. An examination of the room where the accident occurred was made by Assistant O'Connor, and it was found to be very poorly timbered. The props were not set closer than within 30 feet of the face, except those which had been set under the edge of the slate which fell, and those which were set in many instances had no cap pieces over them, indicating that deceased was not a practical miner nor timberman. This fact was also evidently noticed by the mine boss, and knowing this and that neither the decedent nor his buddy could understand but very little English, probably did not understand his order to set the timbers, he (the mine boss) was negligent in not remaining with them until he knew the place was made safe, or he should have ordered them out of the place and caused it to be timbered by one of the regular timbermen. Deceased leaves a wife and four children.

#### AUGUST.

Four fatalities is the record for this month, two occurring at the same time on the 5th inst. in the Keystone Mine, Sullivan County. Frank Delshmut, the superintendent of the mine, and George Anderson, mine boss, lost their lives in an explosion of fire-damp. The facts brought forth at the investigation of this accident disclose carelessness on the part of the two men killed, astonishing to say the least. The A. H. Whitset Coal Company, former owner of the mine, failed in the latter part of July and the mine went into the hands of a receiver. July 25th was the last day on which coal was hoisted. A number of miners brought out their tools on the morning of the 29th. The fire boss on this occasion examined the mine prior to the miners going into it. These were the last persons in the mine from that date until the day of the explosion, except the mine boss, who had gone down on the morning of August 2d to start the pumps, which are located near the shaft bottom. During this idle time Delshmut was made receiver for the company, also mine superintendent, and it was while ex-

aming the mine with reference to timbers needed, pumps and other repairs necessary to start the mine he and Anderson met their death. Both men were practical miners, Delshmut having had a number of years' experience as mine superintendent and mine foreman at mines in various parts of the State, and Anderson for several months prior to his death had been serving as mine boss of this mine. Both knew the mine generated large quantities of fire-damp, and in addition to one heavy explosion, in which no one was injured, several accidents of a serious nature had occurred from the same source. In fact, one or two men were badly burned during the time Anderson had been bossing the mine. Knowing these facts, wishing to make the experiments above stated, they went into the mine about 9:30 o'clock a. m. on the 5th with open lamps and no safeguard whatever against fire-damp, and the explosion occurred about fifteen minutes later. The alarm was given at once, the fan speeded to full capacity and a searching party organized, who by entering the mine with and following the intake air current, were enabled to rescue the unfortunates. Delshmut was found badly mangled, dead, having been killed instantly. And Anderson, though alive, was semiconscious, in which state he remained until about 10 o'clock a. m. of the following day, when he died. He leaves a wife and one child. Delshmut was unmarried, but leaves a dependent father.

August 19th August Waldon, driver, 32 years of age, single, was crushed to death by loaded mine cars in the Dering Mine, No. 7, Vermillion County. About 12:30 o'clock p. m. Waldon was bringing a trip of two loaded cars out of the fifth southwest cross-entry, riding in the manner drivers usually do, with one foot on the drawbar of the car and one on the tail-chain. While coming down a hill near the mouth of the entry he either lost his footing or was crowded off the tail-chain by the mule, falling on the side of the entry, and was caught and dragged between the car and the rib. When found a few minutes later by a trapper and another driver he was lying unconscious between the cars and the entry side with one leg between the wheels under the rear car, indicating that in addition to having dragged him, the cars had partially run over him. He was crushed through the shoulders, chest and hips, and also received internal injuries, from the effects of which he died at 4:30 o'clock a. m. of the following day. He leaves a dependent father.

August 26th John Sharpless, miner, 36 years of age, single, was killed by falling slate in the Vandalia Mine No. 50, Clay Coun-

ty. From evidence adduced at the investigation of this accident it was learned at the time he met his death Sharpless was employed drawing pillars, and during the interim from Saturday night of the 24th and Monday morning of the 26th his working place had caved in back to the end of the pillar which he was drawing. About 9:45 o'clock a. m. of the latter date decedent, who was a thoroughly practical miner, after having, as he supposed, made the place safe, was engaged in loading a car of coal, when suddenly a large piece of slate 6 feet in length, ranging from 3 to 5 feet wide and 14 inches thick, gave way, falling on him, killing him instantly.

#### SEPTEMBER.

Three fatal accidents occurred in this month. The first of these occurred on the 16th inst. in the Vandalia No. 9 Mine, Vermillion County. At 3:30 o'clock p. m. of this date James Murdock, a lad but 16 years of age, working in the mine with his father, was fatally injured by falling slate. At the time of the accident he and his father, George Murdock, were on their way out of the mine and had reached a point about 139 feet from the face of the second south cross-entry off the fourth southwest, their working place, when a large piece of draw slate 7 feet square and 7 inches thick gave way and fell, catching decedent, breaking a leg and three ribs and otherwise injuring him. He died the following day. The father at the time was some four or five feet in advance of the boy, and he was also struck by the slate and painfully injured. From the evidence of several witnesses testifying at the investigation of this accident, among whom were the father and two brothers of deceased, it was learned that the slate which caused the accident was known to be loose and in a dangerous condition for several days prior to the accident, and that the mine boss had full knowledge of this fact, having been notified of the same by George Murdock, and that he (the mine boss) examined and sounded the slate on the morning of the day of the accident and promised to attend to it. In addition to having made no effort either to secure the slate with timbers or take it down, he permitted both miners, drivers and mules to pass to and fro under it during the day's work until it fell with the above result. All of which being true, but one conclusion could be reached, i. e., that the mine boss was criminally negligent of his duty. George Murdock testified that his son had been working in the mine but about five months prior to his death; he further stated that he had known

the slate which caused his death was loose and dangerous a week before it fell. John Murdock, 21 years of age, testified that he had heard his father complain to the mine boss that the slate was loose; also had heard his father warn other persons not to come in the entry because the slate was dangerous, and that he (John Murdock) had examined the slate about 10 minutes prior to the accident, and that he was afraid it would fall. Possessing a full knowledge of these facts, both he and his father continued passing to and from their work under this slate, which apparently was extremely loose and liable to fall at any moment; also permitting or causing the younger inexperienced brother to do likewise. One of the following safeguards could have been adopted in this instance: When leaving the mine, some road should have been used other than the one over which the loose slate was hanging. Failing in this, as a matter of precaution for their own safety, they should have stood one or more props under the slate to steady it before passing under it, or one of them could have examined and watched for any movement of the slate, placing his hand against it, while the other two passed under it, they in turn to do likewise while he passed through. Any one of these precautionary measures would have prevented this accident, yet none of them seem to have been adopted. A summing up of all the facts tends to show George and John Murdock, father and son, were equally guilty with the mine boss of negligence in their duty to decedent.

September 26th Addison Sheets, miner, 37 years of age, wife and three children, was killed by a delayed shot in the Fauvre No. 1 Mine, Vigo County. There were no eyewitnesses to this accident. An examination of the premises and evidence brought forth at the investigation developed the following facts: On the afternoon of the above date decedent had two shots in the face of his working place, the sixth northeast cross-entry. The shots had been tamped on fuse and both had been fired; also, that decedent was found at about 3:30 o'clock p. m., a few minutes after the shot firing in the mine had commenced, unconscious, with his skull crushed. He was lying about 31 feet from the face of his working place, while near and around him were several pieces of coal which had evidently been thrown and struck him from one of the shots. He also sustained several other cuts and bruises in addition to internal injuries, from the effects of which he died while being taken to his home. One of the two shots above referred to was a snubber and one a back shot. It is presumed decedent lighted both shots, or attempted to do so, before leaving the place,

the snubber having the shorter fuse, exploded first, and the back shot having the longer and possibly a faulty fuse, may have burned so long before reaching the powder that decedent thought he had failed to light it and was returning to do so, when, while within a few feet of the shot, it exploded. One more death charged to the use of fuse in shot firing.

September 27th James Black, timberman, 48 years of age, wife and 3 children, was fatally injured by falling slate in the Coal Bluff Mining Company's Lawton Mine, Vigo County. This accident occurred at about 12 o'clock, noon, on the eleventh southwest cross-entry. There was no one present at the time, and the first knowledge obtained of the accident was by Leonard Stapleton at 12:20 o'clock, while passing through the entry, found Black lying under a piece of slate 9 feet in length, 5 feet wide and 4½ inches thick. Stapleton procured assistance at once and removed the slate, when it was found decedent suffered from a broken shoulder and six broken ribs in addition to internal injuries, from which he died at 11:30 a. m. of the 30th following. It was supposed by some that he was examining the slate which caused his death, preparatory to replacing a cross-bar which had been knocked out from under it two days previous by a mine car, and that while so engaged the slate fell on him. Considering the fact the accident took place just at 12 o'clock, the hour all employes stop for lunch, also the location of his dinner pail and tools, the former being at the face of the eleventh south entry and the latter some distance outside the fall, it is probable he was on his way to lunch when the slate caught him.

#### OCTOBER.

Four deaths is the record for this month. On the 2d inst. Claude Luzader, cager, 29 years of age, single, was crushed to death by an ascending cage at the bottom of the hoisting shaft of the Indiana Consolidated Coal Company's No. 30 Mine, Sullivan County. On the afternoon of above date (the hoist being over) rails and track material were being lowered into the mine. At 3 o'clock Luzader had just finished unloading a cage load of such material when a number of persons came to the shaft bottom, wishing to go out of the mine. The north cage, the one on which the rails were being lowered, was then on the bottom, empty, the east bonnet was raised, however, to permit the rails being placed on the cage. Luzader rang three bells to the engineer, and stepping on the cage, started to walk across it when the engineer, without wait-

ing for any other signal, hoisted the cage, catching the decedent between the brow timber and the bottom of the cage, crushing him to death instantly. Three bells is the signal at this mine used by persons at the bottom when wishing to stop the cage at the surface landing for the purpose of taking off picks, etc., and decedent being new at the work, having served but one day as extra cager, it is presumed thought the same signal would apply to the bottom, and unconsciously gave the three bells, intending to hold the cage stationary at the bottom until he could cross it and let the east bonnet down. The engineer, thinking he wished the cage stopped at the surface landing, hoisted it up with the above results.

October 7th Lewis Butler, machine helper, 35 years of age, who leaves a wife and one child, was injured by falling draw slate and coal in the Summit No. 2 Mine, Greene County. On the morning of the above date Butler and the machine runner, William Asher, were under-cutting room No. 21 on the fifth southwest cross-entry with an electric chain mining machine. At 10 o'clock they had just finished an under cut and the machine was backing out, when suddenly a large mass of coal and draw slate, which had evidently been broken by a previous shot, gave way, falling on Butler, breaking his right leg in two places, also injuring him internally. He was taken to his home and a physician called, who gave his opinion that the injuries were not fatal. He died, however, on the 14th inst. following from uremic poisoning.

October 15th Fred Harden, pump man, 25 years of age, single, was fatally injured in the Dering No. 5 Mine, Vermillion County. At 10 o'clock a. m. while working around an electric pump he slipped and fell, catching his hand in one of the cog wheels, lacerating his fingers badly. Blood poisoning set up later, resulting in his death on the 24th following.

October 28th Peter Papovicin, miner, 22 years of age, single, was fatally burned in an explosion of powder in the Buckeye Mine, Vermillion County. On the afternoon of above date Papovicin had drilled a hole behind a shot in his room, and in doing so struck and drilled through a piece of sulphur. At 2 o'clock he was charging the hole and had placed two charges, about two quarts of powder, in the hole, which he was trying to push back with his scraper. The button on the end of his scraper was too large to pass through the point where the sulphur lay. He then tried to force the powder through this space with an iron tamping bar, and in doing so struck the edge of the sulphur with the bar, which emitted a spark, exploding the powder in the hole, this in turn exploding an almost

full keg setting near by, burning him so that he died at 1:25 p. m. of the following day at the St. Anthony's Hospital in Terre Haute. A copper tamping bar, such as is called for by statute, would have prevented this accident.

#### NOVEMBER.

Six fatalities occurred in this month. On the 4th inst. Carl Myers, driver, aged 18 years, single, was crushed to death between a car and mine door in the Tower Hill Mine, Greene County. At 8 o'clock a. m. decedent was coming out of the mine with a loaded trip and was riding on the front end of the car, standing with one foot on the drawbar and one on the tail chain. He was riding with his face partially toward the car. While passing through a mine door which had previously been propped open to permit him to pass through, the door in some way became loose from its fastening and swung to just as the driver was entering it. The edge of the door caught him against the end of the car, crushing him to death instantly. He leaves a dependent mother and four younger brothers and sisters.

November 7th Bernard Kurthoff, miner, 52 years of age, was killed instantly by falling slate in the Vandalia No. 6 Mine, Greene County. He leaves a dependent wife. At 9:10 a. m. decedent was at work loading a car within a few feet of the face of his room. He had the car about bedded (level full) and was reaching out over it placing small pieces of coal around the sides of the car. While so engaged a large piece of slate 13½ feet in length, 6½ feet wide and 12 inches thick suddenly gave way, falling on him, pinning him down on the edge of the car and coal. When found a few minutes later he was lying in this position under the slate, his neck broken and otherwise mutilated. The room in which decedent was working was recently driven through a fault, on which account it had been narrowed down to 10 feet in width. At the time he met with his accident he was renecking it. A large roll, comprising a part of the fault, lay directly across the place, with a slip extending up over it. A shot had been made under the heavy end of the roll on the evening of the 6th and a portion of the coal loaded out on the morning of the 7th, and the support thus removed caused the slate to fall.

November 12th records two fatalities occurring in the Vandalia No. 10 Mine, Sullivan County. At 9:30 o'clock a. m. Horace McIntire, loader, 18 years of age, single, was caught between an empty mine car and a prop and injured so he died on the evening of the

20th following. From evidence adduced at the investigation of this accident it was learned that decedent, when not engaged in loading coal at his working place, was in the habit of spending his time with the drivers, making trips for them, etc. At the hour above named he was sitting at one of the double partings when one of the drivers came in with a loaded trip. The driver hitched his mule to an empty car and walked around to uncouple it from the trip when McIntire stepped on the drawbar of the car and tail chain and struck the mule several sharp blows with a stick, causing it to leave the parting in a run. He had traveled but a short distance, however, when the car took the points of a cross-entry switch and jumped the track. McIntire, instead of jumping off the car, as he should and could have done, remained on the tail chain and was dragged up against a post which stood on the side of the road, injuring him as above stated.

At 10:30 a. m. of this same date Archie Aikman, motorman, 25 years of age, was fatally injured by being caught between a loose cross-bar and the motor on one of the cross-entries. At the hour above named decedent was taking a trip of empty cars into the cross-entry and was riding on the front end of the motor at the time and was driving it at a speed of about 6 miles an hour. A cross-bar which had evidently been knocked out of place by the loaded trip last made was lying directly across the entry, one end resting at the roof on a prop and the other about 2½ feet from the floor. Aikman did not see the timber until within a few feet of it, and was driven up against it by the motor and so injured he died about two hours later. He leaves a wife and two children.

November 12th Jules Vonzamilute, miner, 30 years of age, was killed by a blast in the Vandalia No. 5 Mine, Greene County. At firing time (3:30 p. m.) of above date Vonzamilute, having three shots tamped ready to fire, requested a fellow miner by the name of Gribbe, who was working in an adjoining room, to assist him in lighting them. The three shots were located one on each rib and one in the center of the room, and all of them tamped on fuse. Gribbe, after lighting his own shot, went over into Vonzamilute's room to assist him as requested, decedent at the time was standing about the center of the room nearly 10 feet back from the face, and motioned Gribbe to light the shot on the right hand rib. Just as the latter was about to apply his light to the fuse the shot in the center of the room exploded, hurling large pieces of coal back a distance of 25 feet from the face, some of which struck decedent, crushing his skull and injuring him otherwise so he died a few



hours later. Deceased was unconscious from the time of his accident until his death, and could give no reason why he lighted the shot and remained in the room, also permitting a fellow miner to come into the room, thus endangering his life. This being true, there can be but one explanation, viz., decedent was not a practical miner, knew nothing about the use of explosives and did not realize the danger to which he was exposing himself and Gribbe.

November 14th Dell Brock, driver, 18 years of age, single, was run over by loaded mine cars and instantly killed in the Summit No. 2 Mine, Greene County. Brock was employed as a spike team driver, hauling coal from a double parting to the shaft bottom, a distance of 706 feet. There were no eyewitnesses to the accident, and when last seen alive (9:30 a. m.) decedent was leaving the double parting with a loaded trip of cars for the shaft bottom, and when found a few minutes later his trip was standing 141 feet from the siding, the two front cars in the trip off the track and Brock lying under the second car, his skull crushed and life extinct. His cap and lamp were found on the roadway about 20 feet inside the point where the trip was stopped, while above the point was a 2x4-inch cross-bar. The entry at this point also has a slight grade in favor of the loaded cars, and it is the general opinion that decedent was coming down this grade at a fast rate of speed, and striking his head against this bar, lost his balance, falling under the trip and was dragged from that point to where his body was found, the front car in the trip having passed over him.

#### DECEMBER.

Three fatal accidents is the record for this month. The first occurred on December 18th, when Louis Harmon, miner, 75 years of age, single, was fatally injured by falling slate in the Superior No. 5 Mine, Parke County. At 3 o'clock p. m., having completed his day's work, decedent had gone back to where he left his clothes and powder box in a break-through, 70 feet from the face of his working place, and was in the act of dressing, preparatory to going home, when a large piece of slate 19 feet in length, 7 feet wide and 6 inches thick fell without warning, striking him and injuring him so that he died about one hour later while being taken home.

December 19th Frank Hawhee, driver, 26 years of age, wife and one child, was instantly killed by being run over with loaded mine cars in the Dering No. 7 Mine, Vermillion County. From evidence adduced at the investigation of this accident it was learned that at

about 1:40 p. m. decedent was coming out of the mine with a trip of two loaded cars, riding with one foot on the drawbar of the car and the other on the tail chain, and while coming down a slight grade he was kicked by his mule, losing his balance and falling under the rapidly moving trip. When help arrived he was found doubled up under the first car in the trip, his head between the wheels and life extinct.

December 31st Joe Karasave, loader, 46 years of age, wife and 7 children, was fatally injured by falling slate in the Vandalia No. 8 Mine, Greene County. At 11:42 a. m. decedent was engaged at the face of his working place working down some loose coal, when a large piece of slate of a pot formation, measuring  $6\frac{1}{2}$  feet in length, 5 feet 5 inches wide and  $3\frac{1}{4}$  inches thick, gave way without warning, falling on him, inflicting injuries of which he died three and one-half hours later.

In the following table will be found a summary of fatal accidents, showing the date on which each accident occurred, the name, occupation, age and nationality of persons killed, the number of dependents left by each death, cause of accident and the name of the mine wherein the accident occurred:

TABLE  
Summary of Fatal Accidents.

Date.	NAME.	Occupation.	Age	Cause of accident.	Mine.	County.	Dependents.					Nationality.
							Wife.	Children.	Father.	Mother.	Other Dependents.	
Jan. 5	Otto Saxseburgh.	Shot-firer.	33	Blown out shot.	Maple Valley.	Vermillion.						Findlander.
Jan. 8	Samuel Adams.	Top laborer.	60	Falling down shaft.	Vandalia No. 316.	Parke.	1					American.
Jan. 9	Peter Gebhart.	Timberman.	39	Falling slate.	Oswald.	Gilson.	1	3				German.
Jan. 12	George Howard.	Driver.	18	Mine car.	Hudson.	Sullivan.			1			American.
Jan. 14	Edward Wolf.	Miner.		Powder explosion.	Dering No. 7.	Vermillion.				1		Polish.
Jan. 14	J. Phasto.	Miner.		Powder explosion.	Dering No. 7.	Vermillion.	1					Polish.
Jan. 14	J. Joseph.	Miner.		Powder explosion.	Dering No. 7.	Vermillion.	1	3				Polish.
Jan. 14	T. Halenk.	Miner.		Powder explosion.	Dering No. 7.	Vermillion.	1	1				Polish.
Jan. 14	J. Brezus.	Miner.		Powder explosion.	Dering No. 7.	Vermillion.						German.
Jan. 14	H. Shonen.	Miner.		Powder explosion.	Dering No. 7.	Vermillion.			1	1		Findlander.
Jan. 14	Leo Pike.	Miner.		Powder explosion.	Dering No. 7.	Vermillion.	1					Polish.
Jan. 14	Robt. Johnson.	Miner.	30	Delayed shot.	Twin No. 4.	Greene.	1	1				Scotch.
Jan. 15	S. Sacery.	Miner.	40	Ascending cage.	Buckeye No. 2.	Vermillion.						Italian.
Jan. 16	William Metcalf.	Miner.	22	Falling slate.	Cummins.	Sullivan.		1				American.
Jan. 22	Mike Lyyskie.	Shot-firer.	39	Smoke explosion.	Dering No. 15.	Vermillion.	1	1				Findlander.
Jan. 22	John Poska.	Shot-firer.	26	Smoke explosion.	Dering No. 15.	Vermillion.		3				Findlander.
Feb. 6	Chas. Harling.	Timberman.	57	Falling slate.	Vandalia No. 40.	Knox.	1					German.
Mar. 12	David Hill.	Miner.	23	Powder explosion.	Brazil No. 4.	Clay.						American.
Mar. 12	Thomas Roberts.	Miner.	19	Powder explosion.	Brazil No. 4.	Clay.			1	1		American.
Mar. 19	Francis Padgett.	Flat trimmer.	37	Railroad cars.	Little Giant.	Sullivan.	1	4				American.
Mar. 28	Matto Gentile.	Miner.	35	Ascending cage.	Crown Hill No. 1.	Vermillion.						Italian.
Mar. 30	Harry Smith.	Driver.	25	Falling slate.	Oak Hill No. 10.	Vermillion.	1	1				American.
April 25	Daniel O'Donnell.	Driver.	25	Mine car.	Lattas Creek.	Greene.				1		American.
May 27	Leo Huff.	Top laborer.	28	Railroad car.	Electric.	Warrick.	1	3				American.
June 17	George Myrick.	Miner.	62	Falling coal.	Vandalia No. 10.	Clay.		1				Welsh.
June 22	Hiram Miller.	Loader.	64	Falling slate.	Forest.	Vizo.	1					American.
July 12	Pietro Bartalonia.	Miner.	23	Powder explosion.	Dering No. 5.	Vermillion.				1		Italian.
July 12	Silvio Sentsky.	Miner.	27	Powder explosion.	Dering No. 5.	Vermillion.	1	2				Italian.
July 5	Jas. Dunabay.	Road man.	45	Falling slate.	Miami No. 2.	Vizo.	1	5				Irish.
July 5	Archie Hunter.	Top laborer.	18	Descending cage.	Tecumseh.	Knox.			1	1		Scotch.
July 8	Homer Trueblood.	Loader.	18	Falling slate.	Mammoth.	Sullivan.			1	1	1	American.
July 19	Will Richardson.	Driver.	25	Kicked by mule.	Lattas Creek.	Greene.				1		American.

July 24	Joso Bieam.	Miner.	34	Falling slate.	Dering No. 7.	Vermillion.	1	4				Austrian.
Aug. 5	Frank Delsamut.	Mine superintendent.	...	Fire damp explosion.	Keystone.	Sullivan.						American.
Aug. 5	George Anderson.	Mine boss.	...	Fire damp explosion.	Keystone.	Sullivan.	1	1				English.
Aug. 19	John Waldon.	Driver.	32	Fell under mine car.	Dering No. 7.	Vermillion.					1	American.
Aug. 26	John Sharpless.	Miner.	36	Falling slate.	Vandalia No. 60.	Clay.						American.
Sept. 16	James Murdock.	Miner.	16	Falling slate.	Vandalia No. 9.	Green.			1	1		American.
Sept. 26	Addison Sheets.	Miner.	37	Delayed shot.	Fauvre No. 1.	Vigo.	1	3				American.
Sept. 27	James Black.	Timberman.	48	Falling slate.	Lawton.	Vigo.	1	3				Scotch.
Oct. 2	Claude Luzader.	Cager.	29	Ascending cage.	Con. Ind. No. 20.	Sullivan.						American.
Oct. 7	Lewis Butler.	Machine helper.	35	Falling slate, hand mashed.	Summit No. 2.	Green.	1	1				American.
Oct. 15	Fred Hardin.	Pumpman.	25	Blood poisoning.	Dering No. 5.	Vermillion.						American.
Oct. 28	Pietro Popovinci.	Miner.	22	Powder explosion.	Buckeye.	Vermillion.						American.
Nov. 4	Carl Meyers.	Driver.	18	Between car and mine door.	Tower Hill.	Greene.				1	4	Roumanian.
Nov. 7	Bernard Kurthoff.	Miner.	12	Falling slate.	Vandalia No. 8.	Greene.	1					American.
Nov. 12	Horace McIntire.	Loader.	18	Between mine car and prop.	Vandalia No. 10.	Sullivan.				1	1	German.
Nov. 12	Archie Aikman.	Motorman.	25	Motor and cross bar.	Vandalia No. 10.	Sullivan.	1	2				American.
Nov. 12	Jules Vonzamillute.	Miner.	30	Premature blast.	Vandalia No. 5.	Greene.						French.
Nov. 14	Dell Brock.	Driver.	18	Run over by mine cars.	Summit No. 2.	Greene.			1	1		American.
Dec. 18	Louis Harmon.	Miner.	75	Falling slate.	Superior No. 5.	Parke.						French.
Dec. 19	Frank Hawhee.	Driver.	26	Mine cars.	Dering No. 7.	Vermillion.	1	1				American.
Dec. 31	Joe Karasave.	Loader.	46	Falling slate.	Vandalia No. 8.	Greene.						Polander.

## PERSONS PERMANENTLY INJURED.

Under this head we include only the accidents resulting in the amputation of a limb, a broken back or other injuries unfitting persons to perform the duties of their usual occupation.

The following table exhibits the date of accident, the name, age and occupation of persons injured, the number of persons dependent on each for support, the nature and cause of the injury and the name of the mine and the county where the accidents occurred:

TABLE OF PERMANENT INJURIES.

Date.	NAME.	Age.	Occupation.	Dependents		Injury.	Cause of accident.	Mine.	County.
				Wife.	Children.				
Jan. 12	Samuel Oldman . . . . .	29	Shot firer. . . . .	1	2	Arms, hands, face burned. . . . .	Powder explosion. . . . .	Lower Vein. . . . .	Vigo.
Jan. 12	Oliver Kelly. . . . .	45	Shot firer. . . . .	1	6	Face, arms, hands burned. . . . .	Powder explosion. . . . .	Lower Vein. . . . .	Vigo.
Feb 19	Wm. Hawton. . . . .		Loader. . . . .	1	0	Back dislocated. . . . .	Falling slate. . . . .	Gilmour. . . . .	Greene.
May 1	James Douglas. . . . .	19	Miner. . . . .	0	0	Arms, hands, face burned. . . . .	Powder explosion. . . . .	Lower Vein. . . . .	Vigo.
June 1	Bert Griffin. . . . .	22	Driver. . . . .	0	0	Leg amputated. . . . .	Mine car. . . . .	Vandalia No. 316. . . . .	Parke.
July 18	Victor Brugman. . . . .	25	Jerryman. . . . .	1	0	Hands, arms, face burned. . . . .	Explosion fire damp, . . . . .	Vandalia No. 10. . . . .	Sullivan.
Sept. 14	Charles Johns. . . . .	20	Miner. . . . .	0	0	Back broken. . . . .	Falling slate. . . . .	Vandalia No. 66. . . . .	Vigo.
Sept. 19	Richard Creighton. . . . .	26	Miner. . . . .	1	0	Leg crushed. . . . .	Falling slate. . . . .	Vandalia No. 10. . . . .	Sullivan.
Oct. 5	Wm. McClelland. . . . .	25	Motorman. . . . .	1	0	Leg amputated. . . . .	Fell under motor. . . . .	Black Creek. . . . .	Greene.

TABLE

*Showing the Nationality of Persons Killed or Permanently Injured and the Number of Dependents.*

<i>Nationality.</i>	<i>Fatal.</i>	<i>Perma- nent.</i>	<i>Depend- ents.</i>
American .....	27	7	59
Polish .....	6	..	17
German .....	4	..	6
Italian .....	4	..	4
Finlanders .....	3	..	7
Scotch .....	3	..	8
Welsh .....	1	..	2
Irish .....	1	..	6
English .....	1	1	3
Austrian .....	1	..	5
Roumanian .....	1	..	..
French .....	1	1	1
Totals .....	53	9	118

COMPARATIVE TABLE

*Showing Number of Tons of Coal Mined Each Year, the Number of Persons Employed and the Number of Tons of Coal Produced per Each Death Each Year From January 1, 1898 to January 1, 1908.*

<i>YEAR.</i>	<i>Tons produced.</i>	<i>Employees.</i>	<i>Fatal accidents.</i>	<i>Tons produced per death.</i>
1898 .....	5,146,920	No report.	22	233,920
1899 .....	5,864,975	7,366	15	390,697
1900 .....	6,283,063	8,858	18	349,119
1901 .....	7,019,203	10,296	24	292,466
1902 .....	8,763,197	13,139	24	365,113
1903 .....	9,962,563	15,128	55	181,153
1904 .....	9,872,404	17,858	34	290,114
1905 .....	10,995,972	17,856	47	233,916
1906 .....	11,422,027	19,562	31	368,410
1907 .....	13,250,715	19,109	53	250,013

## SERIOUS ACCIDENTS.

Under this head (as in our former reports) we include only the accidents resulting in broken bones, internal and other injuries such as we think are of a nature serious enough to call for special mention. In the following summary we exhibit the number of serious accidents occurring, the date of each accident, the name, age and occupation of persons injured, the nature, cause and extent of the injury, the number of persons dependent on each person injured for support, the length of time they were idle by reason of this injury (where we were able to ascertain the same) and the name of the mine and county wherein the accident occurred:

TABLE OF SERIOUS ACCIDENTS.

Date.	NAME.	Age.	Occupation.	Dependents.		Days Idle.	Injury.	Cause of Accident.	Mine.	County.
				Wife.	Children.					
Jan. 1	Brook Cheek	20	Driver	0	0	30	Back injured.	Fell under mine car.	Miami No. 1.	Vigo.
Jan. 3	Ed. Price	55	Loader	1	0	20	Hips and back injured.	Falling slate.	Gilmour.	Greene.
Jan. 14	Mat. Sewell	25	Miner	0	0	14	Face and hands burned.	Premature shot.	Twin No. 4.	Greene.
Jan. 23	George Hafflye	21	Miner	1	1	42	Ankle broken.	Falling slate.	Vulcan.	Greene.
Jan. 24	George Bennett	30	Miner	0	0	25	Body burned.	Explosion of powder.	First Avenue.	Vanderburgh.
Feb. 2	Wm. Gray	30	Loader	0	0	25	Foot crushed.	Falling coal.	Mammoth.	Sullivan.
Feb. 2	Everett Blair	24	Motorman	0	0	71	Fingers cut off.	Between car and motor.	Mammoth.	Sullivan.
Feb. 19	Robert Paveve	38	Miner				Face and hands burned.	Smoke explosion.	Castle Garden.	Warrick.
Feb. 19	Robert McKain	26	Miner				Face and hands burned.	Smoke explosion.	Castle Garden.	Warrick.
Feb. 19	James Buck	30	Miner				Face and hands burned.	Smoke explosion.	Castle Garden.	Warrick.
Feb. 19	George Zimmerman	33	Miner				Face and hands burned.	Smoke explosion.	Castle Garden.	Warrick.
Feb. 19	A. Balien	18	Miner				Face and hands burned.	Smoke explosion.	Castle Garden.	Warrick.
Feb. 19	Enuch Roach	22	Miner				Face and hands burned.	Smoke explosion.	Castle Garden.	Warrick.
Feb. 19	John Roach	26	Miner				Face and hands burned.	Smoke explosion.	Castle Garden.	Warrick.
Feb. 19	Al. Zimmerman	50	Miner				Face and hands burned.	Smoke explosion.	Castle Garden.	Warrick.
Feb. 19	James Roach	40	Miner				Face and hands burned.	Smoke explosion.	Castle Garden.	Warrick.
Feb. 19	Lemuel Bailey	28	Miner				Face and hands burned.	Smoke explosion.	Castle Garden.	Warrick.
Feb. 19	J. A. Kelly	40	Miner				Face and hands burned.	Smoke explosion.	Castle Garden.	Warrick.
Feb. 19	W. Littlepage	20	Miner				Face and hands burned.	Smoke explosion.	Castle Garden.	Warrick.
Feb. 19	G. W. Littlepage	20	Miner				Face and hands burned.	Smoke explosion.	Castle Garden.	Warrick.
Feb. 26	Lee Rice		Top laborer.	1	2	12	Back injured.	Descending cage.	Gilmour.	Greene.
Mar. 12	Ray Carter	24	Driver	1	0		Injured internally.	Caught under mine car.	Chitens.	Sullivan.
Mar. 7	James Clapper	24	Driver	0	0	6	Face injured.	Kicked by mule.	Greene Valley.	Greene.
Mar. 12	Edwin Forts	17	Miner	0	0	70	Face, hands and body burned.	Explosion of powder.	Brazil Block No. 4.	Clay.
Mar. 23	Oscar Groll		Driver				Hips injured.	Fell under mine car.	Littles.	Pike.
Mar. 29	A. McGrew	22	Motorman	0	0	46	Arm broken.	Between mine cars.	Mammoth.	Sullivan.
April 3	Chas. Lisdle		Miner				Hips injured.	Falling slate.	Ayrshire No. 3.	Pike.
April 4	Wm. Pentland		Loader	0	0	20	Skull fractured.	Fall of slate.	Gilmour.	Greene.
April 6	Wallace Reid	38	Loader	1	0	210	Arm broken.	Fall of slate.	Mammoth.	Sullivan.
April 8	Albert Wright	18	Miner	0	0	80	Leg broken.	Falling coal.	Lewis.	Clay.
April 13	Jas. Fagin	50	Miner	0	0	90	Foot broken.	Falling slate.	Summit No. 2.	Greene.
April 16	Louie Clary	23	Miner				Injured in abdomen.	Falling slate.	Excelsior.	Clay.
April 16	Newton Steadman		Shot-firer				Body burned.	Premature shot.	Vandalia No. 67.	Vigo.



TABLE OF SERIOUS ACCIDENTS—Continued.

Date.	NAME.	Age.	Occupation.	Depend- ents.		Days Idle.	Injury.	Cause of Accident.	Mine.	County.
				Wife.	Children.					
April 16	John Watkins.	28	Miner.	1	1		Face and arms burned.	Explosion of fire damp.	Wabash.	Vigo.
April 17	Walter Hedge.		Miner.				Face and body burned.	Drilling of shot exploded.	Ayrshire No. 4.	Pike.
April 17	Harry Monroe.		Miner.				Face and body burned.	Explosion of fire damp.	Keystone.	Sullivan.
April 20	A. J. Daugherty.	25	Driver.	1	1	12	Hips injured.	Mine cars.	Lattas Creek.	Greene.
April 20	Isreal Blevins.		Machine runner.	1	2	28	Foot crushed.	Caught under machine.	Jackson Hill No. 2.	Sullivan.
April 22	Wm. Collins.	29	Driver.	0	0	26	Hips injured.	Fell under mine cars.	Jackson Hill No. 2.	Sullivan.
April 23	C. Blevins.	18	Driver.	0	0	100	Hips injured.	Collision of mine cars.	Jackson Hill No. 2.	Sullivan.
May 1	Elbert Archfield.	23	Driver.	0	0	30	Hips injured.	Caught between mine cars.	Gilmour.	Greene.
May 2	Chas. Bogess.	24	Driver.	1	2	12	Fingers broken.	Sprag and car wheel.	Lattas Creek.	Greene.
May 3	Emil Adonnel.	28	Miner.	0	0	3	Knee injured.	Falling coal.	Vandalia No. 5.	Greene.
May 3	Orvil Aikis.	21	Driver.	1	0	7	Head injured.	Kicked by mule.	Twin No. 4.	Greene.
May 4	W. W. Burgess.	30	Shot firer.	0	0	21	Face, hands burned.	Blown out shot.	Oswald.	Gibson.
May 4	Charles Wood.	19	Miner.	0	0	30	Foot crushed.	Falling slate.	Treager.	Clay.
May 6	Howard Geemmer.	20	Driver.	0	0	48	Chest bruised.	Between mine cars.	Mammoth.	Sullivan.
May 6	Denk Thomas.		Driver.				Ribs fractured.	Kicked by mule.	Gilmour.	Greene.
May 6	Charles Southwood.	20	Trip rider.	0	0	210	Leg broken.	Car jumped track.	Mammoth.	Sullivan.
May 9	George Bardsley.	19	Driver.	0	0	6	Head fractured.	Caught by mine car.	Phoenix No. 4.	Sullivan.
May 11	John Silis.	52	Timberman.	1	6	18	Shoulders, ankle injured.	Falling slate.	Superior No. 2.	Parke.
May 12	Charles Mask.	30	Shot firer.	0	0	7	Hands and face burned.	Delayed shot.	Maple Valley.	Vermillion.
May 13	Marve City.	33	Loader.	1	1	40	Arm fractured.	Mine car.	Vivian No. 2.	Clay.
May 14	John Easten.	50	Miner.	1	4	120	Leg broken.	Falling slate.	Vandalia No. 10.	Sullivan.
May 16	Frank Lawson.	18	Driver.	0	0	86	Foot crushed.	Run over by mine car.	Mammoth.	Sullivan.
May 16	Thomas Anderson.	24	Miner.	1	1	6	Back injured.	Falling slate.	Vandalia No. 5.	Greene.
May 19	Thomas Jones.	22	Driver.	0	0	90	Foot crushed.	Fell under mine car.	Maple Valley.	Vermillion.
May 20	Aleson Barton.	30	Miner.	1	2		Crushed chest.	Between mine car and prop.	Electric.	Warrick.
May 20	Chas. Noble.	28	Miner.	1	1		Body burned.	Overcharged shot.	Castle Garden.	Warrick.
May 21	John Boyd.	21	Driver.	0	0	12	Hips injured.	Between mine cars.	Vandalia No. 60.	Clay.
May 21	Sam Murphy.	30	Driver.	1	2	41	Foot injured.	Falling coal.	Vandalia No. 10.	Sullivan.
May 23	Milton Webster.	40	Cager.	1	4		Skull fractured.	Coal falling down shaft.	Victor.	Vigo.
May 25	Harlem McKinon.	59	Miner.	1	0	65	Thigh and hips injured.	Falling slate.	Vandalia No. 2.	Greene.
May 29	George Glass.	63	Miner.	1	2	18	Ribs broken.	Mining machine.	Mecca No. 3.	Parke.
May 31	Allen Rogers.	25	Driver.	0	0		Thigh injured.	Falling slate.	Vandalia No. 10.	Sullivan.
June 3	Steve Nash.	34	Jerryman.	1	5	137	Back injured.	Falling slate.	Vandalia No. 6.	Greene.
June 10	Quincy Cardesty.	27	Miner.	1	1	22	Head crushed.	Between car mine and prop.	Vandalia No. 2.	Greene.

June 10	Lafe Gardner	21	Driver	1	0	14	Hand broken	Kicked by mule	Vandalia No. 2	Greene.
June 11	Bert McIntyre	32	Night watch	1	5	12	Ribs fractured	Fell over wheel barrow	Mary	Parke.
June 18	S. T. Bass	48	Miner	1	4	25	Back injured	Falling coal	Brazil Block No. 1	Clay.
June 11	Robert Roger	27	Miner	1	0		Foot crushed	Falling coal	Blackburn No. 2	Pike.
June 18	Wm. Drake	25	Driver	1	1	18	Hips injured	Between mine cars	Vandalia No. 60	Clay.
June 18	James Jones	37	Miner	1	1		Thumb broken	Falling coal	Electric	Warrick.
June 19	Emery Hart	32	Timberman	0	0	21	Back injured	Falling slate	Phoenix No. 4	Sullivan.
June 20	Ed. Colbert	40	Miner	1	4	20	Arm crushed	Between mine cars	Vandalia No. 9	Greene.
June 21	Herman Aclon		Cager	1	0	18	Hand masbed	Coal falling down shaft	Lattas Creek	Greene.
June 22	Wm. Terrell	49	Miner	1	4		Arms burned	Premature shot	Wabash	Vigo.
June 24	George Rosenberg	20	Driver	1	3	18	Hips injured	Crushed between mine cars	Caladonia	Sullivan.
June 24	Thos. Damples	50	Loader	1	1		Leg crushed	Falling coal	Freeman	Sullivan.
June 25	Alex. McNeil	23	Driver	1	0	7	Back injured	Falling slate	Forest	Vigo.
June 26	R. T. Grimes	50	Machine runner	1	2	30	Collar bone broken	Cause not given	Parke No. 11	Parke.
June 26	Frank Lenn	37	Shot firer	1	1		Arm and face burned	Premature shot	Castle Garden	Warrick.
June 26	George Hart	24	Driver	1	1	10	Teeth knocked out	Kicked by mule	Oak Hill	Vermillion.
June 27	Robert Hutchison	45	Miner	1	1	15	Back injured	Falling slate	Dering No. 7	Vermillion.
July 1	Wm. Segsman	55	Miner	1	9	18	Knee injured	Falling coal	Vandalia No. 60	Clay.
July 2	Ely Green		Miner	1	1	60	Crushed in chest	Falling slate	Crawford No. 2	Clay.
July 2	John A. Roberts	35	Miner	1	3	12	Face and arms burned	Explosion of fire damp	Mecca No. 3	Parke.
July 2	Charles Sharp	23	Jerryman	0	0	50	Back injured	Falling slate	Cummins	Sullivan.
July 3	Thos. Small	21	Driver	0	0	30	Hips crushed	Between mine cars	Summit	Greene.
July 8	Warren Foster	24	Miner	1	1	14	Foot broken	Falling slate	Vandalia No. 6	Greene.
July 9	James Scholtz	24	Driver	1	1	17	Side ruptured	Mine car	Dering No. 7	Vermillion.
July 10	John Claster	17	Miner	0	0	60	Ribs fractured	Falling slate	Brazil Block No. 1	Clay.
July 16	Walter Broady	20	Driver	0	0	6	Back and hips injured	Fell under mine cars	Gilmour	Greene.
July 17	Joe Hatt	21	Driver	0	0	125	Hip dislocated	Fell under mine cars	Vandalia No. 10	Sullivan.
July 18	Cecil Craig	22	Driver	1	0	57	Face, arms and hands burned	Gas explosion	Vandalia No. 10	Sullivan.
July 19	Robert Summet		Miner	1	1	6	Body bruised	Falling slate	Lattas Creek	Greene.
July 22	Wm. Kremer	30	Driver	1	1		Collar bone broken	Fell under mine cars	Massey	Pike.
July 26	Zola Thorp	43	Miner	1	3	75	Leg broken	Falling slate	Parke No. 11	Parke.
July 27	Thos. Howe	26	Driver	0	0	125	Rib broken	Falling slate	Oswald	Gibson.
July 30	John Wilson	26	Loader	1	2	54	Back injured	Falling coal	Rainbow	Sullivan.
July 30	Steve Brown	41	Road man	1	3	60	Face and body burned	Explosion of fire damp	Wabash	Vigo.
Aug. 2	George Smith		Driver				Foot crushed	Mine car	Deep Vein	Vigo.
Aug. 3	James South		Miner	1	0	12	Back injured	Falling slate	Vandalia No. 21	Greene.
Aug. 3	Leonis Barr		Miner			60	Back injured	Falling slate	Miami No. 3	Vigo.
Aug. 3	Chas. Barton	25	Machine runner	0	0	50	Skull fractured	Falling slate	Little Giant	Sullivan.
Aug. 3	Fred Vassey	19	Cager	0	0	5	Arm broken	Mine car	Clover Leaf	Sullivan.
Aug. 5	Fred Hoffman	55	Miner	1	5	10	Back and hips injured	Shot through pillar	Vandalia No. 5	Greene.
Aug. 5	John Black, Jr.	26	Miner	0	0		Hip dislocated	Falling slate	Lawton	Vigo.
Aug. 7	D. Collier		Electrician	1	3	12	Eye injured	Struck by fan blade	Mary	Parke.
Aug. 8	Chas. Roach	35	Machine helper	1	5	60	Ankle crushed	Mining machine	Castle Garden	Warrick.
Aug. 10	John Crawley	47	Jerryman	1	4	50	Arm broken	Falling slate	Parke No. 11	Parke.
Aug. 12	Ora Carty		Driver	1	0	12	Arm broken	Mine car	Buckeye	Vermillion.
Aug. 12	Wm. Travallian		Driver	1	1	14	Hip injured	Mine car	Buckeye	Vermillion.
Aug. 12	Tom Brantlinger	25	Driver	1	0	31	Leg broken	Between mine cars	Buckeye	Vermillion.
Aug. 15	Harley Bennett	25	Electrician	1	4		Breast injured	Falling slate	Hocking	Vermillion.

TABLE OF SERIOUS ACCIDENTS—Continued.

Date.	NAME.	Age.	Occupation.	Depend- ents.		Days Idle.	Injury.	Cause of Accident.	Mine.	County.
				Wife.	Children.					
Aug. 16	Oliver M. Davis	28	Driver	1	1	31	Head crushed	Between mine cars	Jackson Hill No. 2	Sullivan
Aug. 16	James Yocum	...	Miner	1	2	...	Leg broken	Falling slate	Superior No. 4	Parke
Aug. 16	Clay Call	19	Driver	0	0	36	Four ribs broken	Between mine cars	Dering No. 6	Vermillion
Aug. 17	Dave Beverage	39	Jerryman	1	3	6	Head cut	Falling slate	Vandalia No. 9	Greene
Aug. 17	Jas. Howe	...	Driver	0	0	48	Head mashed	Caught between car and prop.	Phoenix No. 4	Sullivan
Aug. 20	Wm. Cowden	19	Loader	1	0	6	Back injured	Car jumping track	Clover Leaf	Sullivan
Aug. 20	John Burgen	24	Driver	0	0	75	Leg broken	Caught under mine car	Buckeye	Vermillion
Aug. 20	Newton Davidson	33	Cager	1	3	45	Arm broken	Coal falling down shaft	Phoenix No. 4	Sullivan
Aug. 21	Oscar Phillips	...	Cager	1	0	30	Arm broken	Coal falling down shaft	Phoenix No. 4	Sullivan
Aug. 21	Fliza Coffman	16	Trapper	0	0	...	Back injured	Caught under mine car	Vandalia No. 67	Vigo
Aug. 21	Alex. Jones	60	Jerryman	1	8	90	Shoulder dislocated	Falling slate	Brazil Block No. 1	Clay
Aug. 22	Joseph Stout	...	Driver	...	...	50	Hip dislocated	Falling slate	Gilmour	Greene
Aug. 22	Jas. Goodman	21	Loader	0	0	6	Leg broken	Falling slate	Clover Leaf	Sullivan
Aug. 22	William Parker	30	Flattrimmer	1	2	30	Foot crushed	Railroad car	Phoenix No. 1	Sullivan
Aug. 23	Henry Daechi	38	Miner	1	0	81	Hips injured	Falling slate	Black Creek	Greene
Aug. 23	Lafe Puman	35	Driver	1	4	24	Arm broken	Kicked by mule	Sponsler	Greene
Aug. 24	Ed. Hassel	19	timber man	0	0	60	Leg broken	Between cage and mine car	Dering No. 6	Vermillion
Aug. 24	F. Wheeler	15	Trapper	0	0	21	Head crushed	Between mine cars	Dering No. 6	Vermillion
Aug. 27	George Walters	29	Driver	1	1	12	Hand mashed	Between sprag and wheel	Lattas Creek	Greene
Aug. 27	John Murphy	30	Loader	...	...	...	Back injured	Falling slate	Gilmour	Greene
Aug. 27	Ray Miller	27	Driver	1	1	6	Finger cut off	While coupling cars	Mary	Parke
Aug. 28	Frank Birt	20	Driver	0	0	30	Foot mashed	Between mine cars and prop.	Black Creek	Greene
Aug. 28	Tom Doidge	35	Mine boss	1	6	65	Foot mashed	Caught by mine car	Vandalia No. 21	Greene
Aug. 29	Eber Percel	19	Driver	0	0	12	Hand mashed	Between mine car and prop.	Vandalia No. 9	Greene
Aug. 31	Jasper Nickason	...	Miner	1	3	...	Hips injured	Falling slate	Domestic Block No. 1	Vigo
Sept. 1	Peter May	52	Room boss	1	9	60	Hips injured	Falling slate	Vandalia No. 4	Greene
Sept. 3	Johnathan Johnson	37	Miner	1	3	50	Leg broken	Falling slate	Mecca No. 3	Parke
Sept. 3	Wm. Wake	18	Driver	0	0	12	Ribs broken	Caught under mine car	Dering No. 6	Vermillion
Sept. 5	A. Maxwell	27	Cager	1	1	12	Head crushed	Coal falling down shaft	Dering No. 6	Vermillion
Sept. 5	M. Hollingsworth	29	Loader	0	0	...	Back injured	Falling slate	Lawton	Vigo
Sept. 6	Will Sloan	26	Driver	1	1	34	Teeth knocked out	Kicked by mule	Vandalia No. 3	Greene
Sept. 6	A. Harris	18	Driver	0	0	4	Hips injured	Caught between car and prop.	Vandalia No. 9	Greene
Sept. 6	D. Pirtle	24	Loader	1	2	6	Face and body burned	Explosion of fire damp	Clover Leaf	Sullivan
Sept. 9	D. Campbell	21	Loader	1	0	42	Back injured	Falling slate	Gilmour	Greene

Sept. 9	Albert Lee.	26	Driver	1	0	7	Collar bone broken.	Caught between car and roof.	Black Creek.	Greene.
Sept. 12	John Loth.	37	Machine helper.	1	0	62	Ankle dislocated.	Caught in machine chain.	Vivian.	Clay.
Sept. 16	Chas. Jackman.	38	Miner.	1	0	36	Wrist broken.	Falling coal.	Vandalia No. 16.	Parke.
Sept. 16	D. Hunce.	22	Driver	1	3	36	Hip dislocated.	Caught between car and roof.	Derling No. 6.	Vermillion.
Sept. 17	Ben Purvey.	24	Miner.	1	0	60	Leg broken.	Falling slate.	Prinee.	Vermillion.
Sept. 18	Chas. Reynolds.	18	Driver	0	0	20	Leg broken.	Falling slate.	Summit No. 2.	Greene.
Sept. 18	E. Powers.	22	Blacksmith	1	1	...	Jaw dislocated.	Fell from scaffold.	Electric.	Warrick.
Sept. 19	Geo. Turner.	63	Miner.	1	10	45	Face and body burned.	Explosion of powder.	Superior No. 4.	Clay.
Sept. 20	Theo. Janison.	26	Driver	1	1	30	Back injured.	Falling slate.	Vandalia No. 316.	Parke.
Sept. 20	Ray Hains.	19	Driver	0	0	10	Hips injured.	Crushed between mine cars.	Lawton.	Vigo.
Sept. 20	R. Short.	17	Driver	0	0	36	Toes broken.	Run over by mine car.	Derling No. 6.	Vermillion.
Sept. 23	Fred Wert.	21	Loader	0	0	24	Toe broken.	Falling coal.	Lewis.	Clay.
Sept. 23	Isaac Hoopgarner.	34	Miner.	1	4	9	Hips injured.	Falling slate.	Hudson.	Sullivan.
Sept. 24	Chas. Coleman.	26	Driver	0	0	9	Hips injured.	Caught between mine cars.	Con. Ind. Co. No. 25.	Sullivan.
Sept. 25	C. Hauldson.	20	Cager.	1	0	9	Ribs broken.	Descending cage.	Lattas Creek.	Greene.
Sept. 27	J. Boras.	21	Pumper.	0	0	6	Fingers cut off.	Caught by pump piston.	Vivian No. 2.	Clay.
Sept. 27	Dal Stewart.	37	Loader.	1	1	+	Collar bone broken.	Between mine cars.	Con. Ind. Co. No. 25.	Sullivan.
Sept. 30	Wm. Davis.	26	Miner.	1	2	37	Body bruised.	Falling slate.	Lattas Creek.	Greene.
Sept. 30	Henry McDonald.	28	Machine helper.	1	2	30	Leg cut.	By mining machine.	Green Valley.	Greene.
Sept. 30	Robert Orne.	26	Driver.	0	0	20	Bruiised.	Fell under mine car.	Phoenix No. 4.	Sullivan.
Oct. 2	Wm. Downer.	50	Shot firer.	1	0	90	Forearm fractured.	Shot blowing through pillar.	Oswald.	Gibson.
Oct. 2	A. Carver.	24	Driver.	0	0	...	Foot crushed.	Falling slate.	Freeman.	Knox.
Oct. 3	Geo. Coleman.	28	Miner.	0	0	60	Ankle broken.	Falling slate.	Vandalia.	Parke.
Oct. 3	L. Bridgewater.	54	Miner.	1	2	...	...	...	Lawton.	Vigo.
Oct. 3	Chas. Riley.	23	Driver.	1	0	...	Fingers broken.	...	Tower Hill.	Greene.
Oct. 4	Thos. Kishley.	34	Driver.	1	3	14	Hips injured.	Caught between mine car and door.	Twin No. 4.	Greene.
Oct. 4	Martin Holsher.	34	Miner.	1	0	41	Fingers cut off.	Falling coal.	Vandalia No. 3.	Greene.
Oct. 4	Chas. Ward.	30	Loader.	1	0	60	Leg broken.	Caught by mine car.	Rainbow.	Sullivan.
Oct. 4	Wm. Spencer.	20	Driver.	0	0	60	Foot broken.	Caught between mine cars.	Rainbow.	Sullivan.
Oct. 4	Wm. Bonner.	24	Miner.	1	0	60	Leg broken.	Falling slate.	Buckeye.	Vermillion.
Oct. 5	Ollie Huff.	20	Trip rider.	0	6	30	Arm fractured.	Caught between mine cars.	Vivian No. 2.	Sullivan.
Oct. 5	Lem Clark.	27	Loader.	1	0	+	Ankle fractured.	Falling slate.	Con. Ind. Co. No. 25.	Sullivan.
Oct. 7	Frank Lenhenper.	38	Machine helper.	0	0	12	Back injured.	Falling slate.	Mary.	Parke.
Oct. 8	Peter Lescano.	30	Miner.	1	2	50	Leg broken.	Falling bowlder.	Buckeye.	Vermillion.
Oct. 9	Ernest Smith.	25	Machine runner.	0	0	...	Arm broken.	Mining machine.	Erie Canal.	Warrick.
Oct. 9	Thos. Plen.	42	Loader.	1	1	+	Back injured.	Falling slate.	Con. Ind. Co. No. 25.	Sullivan.
Oct. 9	Joe Cottrell.	...	Miner.	1	0	42	Foot crushed.	Caught in coil rope.	Forest.	Vigo.
Oct. 10	N. Shepherd.	21	Driver.	0	0	...	Ankle crushed.	Between mine cars.	Freeman.	Knox.
Oct. 10	Chas. Masby.	40	Cager.	0	0	100	Leg broken.	Between mine cars.	Forest.	Vigo.
Oct. 14	Jas. Knowles.	63	Miner.	1	...	...	Ankle dislocated.	Fall of coal.	Atherton.	Vigo.
Oct. 15	M. Lesurey.	23	Loader.	0	0	30	Arms and hands burned.	Explosion of powder.	Jackson Hill No. 2.	Sullivan.
Oct. 16	E. Lemmy.	21	Miner.	1	1	...	Back injured.	Descending cage.	Vandalia No. 66.	Vigo.
Oct. 17	L. C. Gleason.	33	Loader.	1	2	11	Face and hands burned.	Explosion of fire damp.	Con. Ind. Co. No. 25.	Sullivan.
Oct. 17	Jas. Jackson.	22	Driver.	0	0	11	Back injured.	Mine cars.	Buckeye.	Vermillion.
Oct. 17	John Michal.	22	Driver.	0	0	...	Back and side injured.	Fell under mine car.	Twin No. 4.	Greene.
Oct. 18	John M. Sheeley.	23	Driver.	1	1	...	Ribs broken.	Fell under mine car.	Erie Canal.	Warrick.
Oct. 18	John McNeely.	24	Driver.	1	1	...	Ribs broken.	Fell under mine car.	Erie Canal.	Warrick.

TABLE OF SERIOUS ACCIDENTS—Continued.

Date.	NAME.	Age.	Occupation.	Depend- ents.		Days Idle.	Injury.	Cause of Accident.	Mine.	County.
				Wife.	Children.					
Oct. 19	Fred Atkins.	18	Driver.	0	0	40	Leg fractured.	Between mine cars.	Forest.	Vigo.
Oct. 20	L. Hatchey.	20	Driver.	0	0	10	Wrist dislocated.	Car jumping track.	Letsinger.	Greene.
Oct. 21	Jas. West.	39	Mine boss.	1	6	10	Collar bone broken.	Caught by descending cage.	Buckeye.	Vermillion.
Oct. 21	R. Small.	21	Driver.	0	0	30	Internal injuries.	Falling slate.	Shirley Hill No. 1.	Sullivan.
Oct. 23	S. Vasey.	53	Lumberman.	1	6	40	Leg broken.	Falling slate.	Domestic Block.	Vigo.
Oct. 25	W. P. Williams.	48	Loader.	1	5	5	Thumb broken.	Falling coal.	Phoenix No. 4.	Sullivan.
Oct. 25	Ben Wake.	18	Driver.	0	0	13	Ribs broken.	Kicked by mule.	Buckeye.	Vermillion.
Oct. 26	John Wills.	18	Driver.	0	0	0	Back and side injured.	Fell under mine car.	Green Valley.	Greene.
Oct. 26	Claude May.	18	Driver.	0	0	0	Head broken.	Between mine cars.	Sponsler.	Greene.
Oct. 26	Jos. Polidew.	39	Miner.	1	6	19	Leg broken.	Falling coal.	Superior No. 5.	Clay.
Oct. 26	Merl Williams.	...	Driver.	1	2	...	Finger broken.	Caught between mine car and rib.	Ray No. 2.	Vigo.
Oct. 26	Wm. Weatherwax.	42	Loader.	0	0	20	Ribs broken.	Falling slate.	Big Vein.	Clay.
Oct. 28	Sam Mass.	30	Miner.	1	4	...	Spine injured.	Falling coal.	Atherton.	Vigo.
Oct. 30	Ed. Mass.	41	Track layer.	1	6	30	Body bruised.	Crushed between mine cars.	Tower Hill.	Greene.
Oct. 24	Theo. Ashcroft.	40	Loader.	0	0	42	Eye injured.	Premature shot.	Forest.	Vigo.
Oct. 24	Whit Mattox.	35	Loader.	0	0	42	Leg injured.	Premature shot.	Forest.	Vigo.
Nov. 1	Clyde Webster.	21	Driver.	1	2	30	Hand mashed.	Between car and machine.	Domestic Block.	Vigo.
Nov. 1	Charles Baker.	30	Loader.	1	1	24	Ribs broken.	Falling slate.	Forest.	Vigo.
Nov. 4	James Dennis.	30	Driver.	0	0	14	Ribs fractured.	Falling under mine cars.	Vandalia No. 3.	Vigo.
Nov. 5	J. Morris.	42	Loader.	0	0	...	Skull fractured.	Premature shot.	Reliance.	Sullivan.
Nov. 6	Wm. Thomas.	36	Driver.	...	...	60	Leg crushed.	Caught under mine car.	Vandalia No. 69.	Vigo.
Nov. 6	Gabe House.	28	Machine helper.	1	3	...	Foot crushed.	By mining machine.	Jackson Hill No. 2.	Sullivan.
Nov. 7	Clarence Allen.	19	Driver.	0	0	...	Hips and spine.	Fell under mine cars.	St. Clair.	Sullivan.
Nov. 8	Wm. Superman.	20	Miner.	1	0	12	Leg and head injured.	Falling slate.	Vandalia No. 60.	Clay.
Nov. 8	T. Gardner.	25	Driver.	1	1	...	Hips injured.	By mine cars.	Vandalia No. 2.	Greene.
Nov. 9	Wm. Clenhall.	17	Miner.	0	0	...	Fingers crushed.	Falling coal.	Vandalia No. 65.	Clay.
Nov. 10	Horace McIntire.	31	Miner.	0	0	...	Hips injured.	Caught between mine car and prop.	Vandalia No. 10.	Sullivan.
Nov. 11	John Cruse.	47	Loader.	1	0	...	Back and hips.	Falling bone coal.	Gilmour.	Greene.
Nov. 11	Wm. Kelley.	30	Miner.	1	0	14	Leg mashed.	Falling coal.	Forest.	Vigo.
Nov. 12	D. McKelley.	58	Jerryman.	1	4	30	Back injured.	Falling draw slate.	Forest.	Vigo.
Nov. 13	Robert Tangan.	60	Trapper.	0	0	20	Face and hands burned.	By escaping steam.	Forest.	Vigo.
Nov. 13	Allen Rogers.	20	Driver.	1	1	...	Leg crushed.	Falling under mine car.	Electric.	Warrick.

Nov. 14	Mail All.	38	Miner.	1	2	Fingers cut off.	With mining machine.	St. Clair.	Sullivan.
Nov. 15	Arthur Sims.	26	Miner.	0	0	Leg broken.	Falling coal.	Knox.	Knox.
Nov. 15	John Houston.	35	Machine runner.	1	3	Hand mashed.	Mining machine.	Domestic Block.	Clay.
Nov. 16	Henry Thompson.	35	Miner.	1	1	Leg broken.	Falling coal.	Brazil Block No. 1.	Clay.
Nov. 17	Mike Tate.	19	Driver.	0	0	8 Back injured.	Falling slate.	Antioch.	Greene.
Nov. 18	Spencer Hall.		Cager.	1	3	Back injured.	Caught by cage.	Caladonia.	Sullivan.
Nov. 19	Hartley Bennett.	35	Electrician.	1	6	10 Foot crushed.	Mining machine.	Ind. Hoeking.	Sullivan.
Nov. 21	Wm. McClure.	28	Driver.	1	2	Back injured.	Car and mine door.	Union.	Sullivan.
Nov. 22	Clarence Jones.	18	Miner.	0	0	Rib broken.	Flying coal from shot.	Lyford No. 1.	Vermillion.
Nov. 23	Patrick Conway.	50	Miner.	0	0	Back injured.	Flying slate.	Cummings.	Sullivan.
Nov. 23	Ernest Jones.	15	Trapper.	0	0	43 Back injured.	Caught between mine cars.	Vandalia No. 65.	Clay.
Nov. 23	W. T. James.	55	Miner.	0	0	Back injured.	Falling slate.	Rebstock.	Clay.
Nov. 30	Jesse Davis.	55	Miner.	1	2	Rib broken.	Falling slate.	Mecca No. 3.	Parke.
Dec. 2	Emery Maxwell.	24	Miner.	1	1	Back injured.	Falling slate.	Vandalia No. 9.	Greene.
Dec. 5	Robert Mattingly.	22	Blacksmith.	1	1	Finger off.	Caught by cage.	Freeman.	Sullivan.
Dec. 7	Fred Hilton.	23	Car coupler.	0	0	Hips bruised.	By mine car.	Consolidated No. 33.	Sullivan.
Dec. 9	John Queen.	24	Loader.	0	0	Leg broken.	Falling slate.	North West.	Greene.
Dec. 10	Wm. Patterson.	26	Driver.	0	0	breast crushed.	Between mine cars.	Dering No. 6.	Vermillion.
Dec. 11	Wesley Haaket.	36	Driver.	1	3	Foot broken.	By mine car.	Citizens.	Sullivan.
Dec. 12	L. Petti.	38	Timberman.	1	2	Hip injured.	By falling slate.	Rebstock.	Clay.
Dec. 12	All Henderson.	45	Miner.	1	2	Back injured.	Falling slate.	Vandalia No. 10.	Sullivan.
Dec. 12	Clarence Raves.		Driver.	1	1	Foot crushed.	Between mine cars.	Forest.	Vigo.
Dec. 16	Jas. Currains.	28	Jerryman.	0	0	Hands and face burned.	Gas explosion.	Dering No. 13.	Sullivan.
Dec. 16	Jack Sutter.	50	Loader.	1	3	Hands and face burned.	Gas explosion.	Dering No. 13.	Sullivan.
Dec. 17	Wm. Scott.	27	Motorman.	1	0	Hips injured.	Caught between motor and rib.	Dering No. 13.	Sullivan.
Dec. 18	L. Amony.	73	Miner.	0	0	Leg broken.	Falling slate.	Superior No. 5.	Clay.
Dec. 18	John Galey.	30	Driver.	1	0	Side injured.	Kicked by mule.	Vandalia No. 69.	Vigo.
Dec. 19	Harvey Cashman.	20	Driver.			Nose broken.	Kicked by mule.	Hamilton.	Sullivan.
Dec. 20	J. Thompson.	42	Boss driver.	1	3	Knee injured.	Mine car.	Knox.	Knox.
Dec. 20	Silas Wagner.	30	Driver.	1	2	Ribs broken.	Fell on iron rail.	Brazil Block No. 1.	Clay.
Dec. 22	Harry Gardner.	22	Timberman.	1	0	Face and hands burned.	Gas explosion.	Vandalia No. 9.	Greene.
Dec. 24	H. Sliders.	28	Miner.	1	0	Ribs fractured.	Force of explosion.	Vandalia No. 9.	Greene.
Dec. 24	Robert Woodruff.	28	Miner.	1	0	Face and hands burned.	Gas explosion.	Vandalia No. 9.	Greene.
Dec. 30	Wm. Sours.	22	Trip rider.	0	0	Ankle broken.	Caught by mine cars.	Lattas Creek.	Greene.
Dec. —	C. Clements.	23	Driver.	1	0	Two ribs broken.	Caught between cars and rib.	Dering No. 7.	Vermillion.

TABLE OF SERIOUS ACCIDENTS.

## MINOR ACCIDENTS.

The aggregate of one hundred and seventy-one minor accidents includes only persons suffering slight cuts and bruises, resulting in very little loss of time, hence no mention of them will be made, other than that shown in the table of causes.

TABLE.

JANUARY.

INJURIES.	Falling coal.	Falling slate.	Falling down shaft.	Killed by mine car.	Kicked by mule.	Ascending cage.	Descending cage.	Mining machine.	Railroad cars.	Coal falling down shaft.	Delayed shots.	Premature shot.	Shots blowing through pillar.	Smoke explosions.	Explosions of powder.	Explosions of fire damp.	Misplaced and windy shots.	Mine motors.	Miscellaneous.	Total.
Fatal.....	2	1	1	...	1	...	...	...	...	1	...	...	2	7	...	1	...	...	...	16
Permanent.....	2	1	1	...	...	...	...	...	...	...	1	...	...	2	...	...	...	...	...	2
Serious.....	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4
Minor.....	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Total.....	5	1	3	...	1	...	...	...	...	1	1	...	2	9	...	1	...	...	...	24

FEBRUARY.

Fatal.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Permanent.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Serious.....	1	...	...	...	...	1	...	...	...	...	...	...	13	1	...	...	1	...	...	17
Minor.....	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Total.....	1	3	1	...	...	1	...	...	...	...	...	...	13	1	...	...	1	...	...	21

MARCH.

Fatal.....	1	...	...	...	1	...	...	1	...	...	...	...	...	2	...	...	...	...	...	5
Permanent.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Serious.....	...	3	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	5
Minor.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	3
Total.....	1	2	3	1	...	1	...	...	1	...	...	...	...	3	...	...	...	1	...	13

APRIL.

Fatal.....	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Permanent.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Serious.....	1	5	4	...	...	...	1	...	...	1	...	...	...	1	1	...	...	...	...	14
Minor.....	1	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	2	...	...	4
Total.....	1	6	1	4	...	...	2	...	...	1	...	...	1	1	...	...	2	...	...	19

MAY.

Fatal.....	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1
Permanent.....	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
Serious.....	2	6	1	10	2	...	1	...	...	1	...	...	...	...	...	1	...	1	...	25
Minor.....	1	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
Total.....	2	7	1	12	2	...	1	1	...	1	...	...	...	1	...	1	...	1	...	30

## MINOR ACCIDENTS—Continued.

JUNE.

INJURIES.	Falling coal.	Falling slate.	Falling down shaft.	Killed by mine car.	Kicked by mule.	Ascending cage.	Descending cage.	Mining machine.	Railroad cars.	Coal falling down shaft.	Delayed shots.	Premature shot.	Shots blowing through pillar.	Smoke explosions.	Explosions of powder.	Explosions of fire damp.	Misplaced and windy shots.	Mine motors.	Miscellaneous.	Total.
Fatal.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Permanent.....	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Serious.....	4	4	...	4	2	...	...	...	...	1	2	...	...	...	...	...	...	...	2	19
Minor.....	3	3	...	3	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	8
Total.....	5	8	...	8	3	...	...	1	...	1	2	...	...	...	...	...	...	...	2	30

JULY.

Fatal.....	...	3	...	...	1	...	1	...	...	...	...	...	...	...	2	...	...	...	...	7
Permanent.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Serious.....	2	7	...	5	...	...	...	...	...	...	...	...	...	...	1	3	...	...	...	17
Minor.....	...	5	...	4	1	1	...	1	...	...	...	...	...	...	2	...	...	...	1	15
Total.....	2	15	...	9	2	1	1	1	...	...	...	...	...	...	2	6	...	...	1	40

AUGUST.

Fatal.....	...	1	...	1	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	4
Permanent.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Serious.....	2	15	2	18	1	...	...	2	1	...	...	1	...	...	...	...	...	...	1	43
Minor.....	1	9	...	16	...	...	...	1	1	...	...	...	...	...	...	...	...	2	...	30
Total.....	3	25	2	35	1	...	...	3	2	...	...	...	1	...	2	...	...	...	3	77

SEPTEMBER.

Fatal.....	...	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	3
Permanent.....	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Serious.....	2	10	1	9	1	...	1	2	...	...	1	1	...	1	...	...	...	...	2	30
Minor.....	4	10	...	17	1	...	...	1	1	...	...	...	...	1	...	...	...	...	3	38
Total.....	6	24	1	26	2	...	1	2	1	1	1	...	1	2	...	...	...	...	5	73

OCTOBER.

Fatal.....	...	1	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	4
Permanent.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Serious.....	6	11	...	16	1	...	2	1	...	2	1	1	...	1	...	1	3	...	...	45
Minor.....	2	3	...	12	...	...	...	1	...	...	...	1	...	...	...	...	5	...	...	24
Total.....	8	15	...	28	1	1	2	2	...	2	1	2	1	1	...	4	6	...	...	74

NOVEMBER.

Fatal.....	...	1	...	3	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	6
Permanent.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Serious.....	5	7	...	9	...	...	4	...	...	1	...	...	...	...	...	...	3	...	...	29
Minor.....	4	5	...	15	3	...	...	1	...	...	...	...	...	...	...	...	4	...	...	32
Total.....	9	13	...	27	3	...	4	...	1	...	2	...	...	...	...	1	7	...	...	67





timber his place properly. The miner, who notwithstanding the fact should always be on the alert, may add to his own safety by using extra precaution during this period, by carefully examining the roof in his working place, setting props, cross-bars, etc., promptly when needed. Many fatalities and other injuries to workmen would be averted and an immense saving in expense inure to the operator by a strict observance of the above rules.

TABLE

*Showing the Total Number of Fatal, Permanent, Serious and Minor Accidents and the Different Occupations of Persons Injured.*

OCCUPATION.	Fatal.	Perma- nent.	Serious.	Minor.	Total.
Pick miners.....	24	3	86	38	151
Loaders.....	4	1	33	14	52
Machine men.....	1		13	11	25
Drivers.....	8	1	86	66	161
Timbermen.....	3	1	12	19	35
Trappers.....			4	3	7
Pump men.....	1		1	2	4
Cagers.....	1		10	4	14
Motormen.....	1	1	3	1	6
Electricians.....			3		3
Road men.....	1		2	4	7
Trip riders.....			3		3
Car couplers.....			1		1
Shot firers.....	3	2	5		10
Mine boss.....	1		2		3
Fire boss.....			1		1
Room boss.....			1		1
Mine superintendent.....	1				1
Boss driver.....			1		1
Top men.....	4		5	7	16
Grand Total.....	53	9	271	171	504

### COMMENTS ON CASUALTIES TO MINE EMPLOYEES.

Under this caption we make some comments on such accidents and causes thereof as we think demand recommended legislation.

A careful study of the foregoing tables, observing the number of accidents occurring, the different causes of same and the occupation of persons injured, etc., while they show mining in all its many details an extremely hazardous calling, the fact is in evidence that there is no occupation more prolific of accidents to mine employes than that of a mule driver. Fortunately this class of employes represents approximately only about 10 per cent of the total working force in a mine. The greatest danger attending this class of work arises from the manner in which drivers usually ride a loaded trip, i. e., by riding on the front end of the trip, standing in an upright position, one foot on the drawbar or car-bumper, which projects out about three inches, and the other on the tail-chain and one hand resting on the top of the coal in the car to

steady himself. With no other support or protection than this, the driver will drive his mule down a grade or on a level, as the case may be, at a fast trot, frequently at a gallop, and while riding in this manner he is in great danger of his car striking a low joint or an obstruction on the rail, causing it to rock up and down or from side to side, jostling him so that he will frequently lose his footing and fall under the rapidly moving trip, or of being kicked off the tail chain by a vicious mule. There is also danger of the car jumping the track and crushing the driver against the entry rib or a prop and by colliding with mine cars, mine doors, slate falls and other debris on the haulage road. Or if there is more than one car in his trip he will frequently ride between the cars on the coupling, in a space ranging from fourteen to eighteen inches in width. This manner of riding a trip is probably more dangerous than the former, by reason of the fact that should the front car leave the track when traveling at even a moderate rate of speed, there is practically no chance for the driver to escape a serious if not a fatal injury by being crushed between the cars. In addition to the above, a driver must face all the dangers encountered by other employes. The table of causes and the table showing the occupation of persons injured exhibits an aggregate of five hundred and four (504) accidents occurring among twenty classes of employes. Of this number, eighty-six (86) serious and sixty-six (66) minor accidents, a total of one hundred and sixty-one (161), or nearly 32 per cent. of the whole, occurred to drivers alone. Of the eight (8) drivers fatally injured, five (5) were killed instantly by falling under and being dragged by loaded cars, one (1) by being kicked by a mule, one (1) by falling slate and one (1) crushed to death by a loaded car and mine door. The one driver who was permanently injured was run over with a loaded car, which crushed a leg so badly that amputation was necessary. Of the eighty-six (86) drivers seriously injured, twenty-eight (28) were injured by falling under loaded cars, twenty-four (24) were crushed between cars, one suffered a badly mangled hand while coupling cars, two were kicked by mules, one had a foot crushed by coal falling off a car, one was seriously burned in an explosion of fire damp, four were crushed between the tops of loaded cars and the roof, nine were injured by falling slate, two crushed between cars and props.

The sixty-six minor accidents, representing slight cuts and bruises, occurred from the same causes, conditions, etc., as the

serious accidents. The above is one particular class of accidents on which we will recommend legislation.

Of the one hundred and twenty-nine (129) persons injured by falling slate, the greater number were miners, injured at or near the working faces. Many of the accidents, as shown by investigation, would have been prevented had the persons injured exercised even the most ordinary care incumbent on them for their own safety. The number might also have been reduced materially had the faces of the working places been examined immediately before each shift by a competent mine examiner.

### ACCIDENTS TO MINE PROPERTY.

The year just ended has been prolific of accidents to mine property. Eight of the most notable of these accidents we deem worthy of mention, four of which occurred in the inside workings of the mines and four in the surface plants, entailing a financial loss of \$47,500. There were also numerous other minor accidents, such as breaking of hoisting ropes and cages, loss of mules, mine floods, etc. The financial loss incurred at each was comparatively small, however, hence we make no special mention of them. The following is a brief description of each of the eight accidents referred to above.

#### FREEMAN MINE.

On the afternoon of July 11th the engine and boiler room at the Freeman mine, Knox County, was struck and completely destroyed by a cyclone, entailing a financial loss of \$3,500. The hoisting engineer, who was at his engine when the storm struck the building, was also seriously injured.

#### KEYSTONE MINE.

About ten o'clock a. m. July 5th a terrific explosion of fire-damp occurred in the Keystone mine, Sullivan County, resulting in the death of the mine boss and mine superintendent and much damage to the interior of the mine. The financial loss was estimated to be about \$1,000.

#### KNOX MINE.

The most destructive mine accident for the year occurred September 26th at the Knox mine in Knox County. About 5 o'clock a. m., at a time when no one was at the mine except the night

watchman, fire broke out, presumably in the boiler room, and before help could be summoned destroyed the entire surface plant, consisting of the engine and boiler room, tipple, fan house, blacksmith shop and mule barns, also doing much damage to the curbing in the hoisting shaft and manway. Two railroad cars which were standing under the tipple were also destroyed. This is an electric machine mine and was well equipped with first-class machinery, a greater portion of which was rendered useless by the fire. The property loss was estimated at \$25,000. The plant was reconstructed and shipments of coal resumed November 20th. The property was insured for \$6,000.

#### TWIN MINE.

On the morning of October 8th the mule barns at the Twin Mine, Greene County, were destroyed by fire, resulting in the loss of all the buildings and seventeen mules. The financial loss was \$4,500.

#### OAK HILL.

On October 25th a most destructive fire, the origin of which is unknown, occurred in the Oak Hill Mine, Vermillion County. The fire broke out about 7:30 o'clock a. m. in a break-through between two entries, shortly after all of the workmen had reached their working places, some of whom were rescued with much difficulty. Owing to the location of the fire it was found necessary to seal off the hoisting shaft and manway in order to smother the fire. The mine remained closed about thirty days, when it was reopened and the fire was found to be extinct. The financial loss will probably reach \$10,000.

#### CONSOLIDATED No. 25.

On the evening of November 14th a mine fire, originating from a gas feeder being lighted by a shot, occurred at the face of one of the cross entries in the Consolidated No. 25 Mine, Sullivan County. When discovered the fire had reached such proportions it was found necessary to seal off that portion of the workings and exclude the air. The stoppings were removed in about ten days, when the fire was found to be extinct. The financial loss was about \$500.

#### RELIANCE MINE.

About 9 o'clock a. m. November 27th, at which time a car of coal was being hoisted at the Reliance Mine, Sullivan County, one

of the batter-braces gave way, causing the sheave wheels to be thrown out of place, one of which fell down the hoisting shaft, wrecking it from top to bottom. Nine days were required to make the necessary repairs, in addition to an expense of \$500.

#### HUDSON MINE.

The engine room at the Hudson Mine, Sullivan County, was destroyed by fire in November, entailing a financial loss of about \$2,000.

#### IMPROVEMENTS.

One hundred and twelve thousand nine hundred and eighty-two dollars and fifty-four cents (\$112,982.54) was reported to this office during the year 1907 as having been expended on improvements and repairs of mines in different counties, as follows: Clay County, \$13,054.14; Daviess County, \$1,520; Greene County, \$11,298; Parke County, \$19,604; Pike County, \$2,935.80; Sullivan County, \$17,230.30; Vanderburgh County, \$1,625; Vermillion County, \$20,502; Vigo County, \$7,563; Warrick County, \$5,809. The following sets out the most important improvements and repairs made:

The Jasonville Coal Company, Clay County, expended \$5,144 in the purchase of an electric motor, wire, supplies and repair work incident to installing motor haulage in their Gold Knob Mine.

The Eureka Block Coal Company, Clay County, report an expenditure of \$5,899.90 for improvements and general repair work in the Eureka No. 5 Mine, but do not state the nature of improvements or repairs.

The Mutual Coal Company, Daviess County, expended \$1,470 building a new tippie at their Mutual Mine.

The Central Coal and Mining Company, Greene County, during the summer months installed motor haulage in their Colora Mine at a cost of \$9,693.47.

Note.—The Queen Coal Company installed electric mining machines in their Fry Mine, Greene County, but we have been unable to learn the cost of installation.

The Indiana Fairmount Coal Company, Greene County, expended \$1,347 in general repair work in the Letsinger Mine.

The Tecumseh Coal Company, Knox County, sunk and equipped with a stairway the manway and completed the equipment of their Tecumseh Mine at a cost of \$11,298.

The United Coal Company, Parke County, expended \$7,100

sinking and equipping an air shaft and made other general repairs at their Mecca No. 3 Mine.

The Lincoln Coal Company installed a compressed air punching machine plant at their Lyford No. 1 Mine, Parke County, for which they expended \$10,000.

The Brazil Block Coal Company expended \$2,504 on general repair work in their No. 12 Mine, Parke County.

The Central Indiana Coal Company, Pike County, expended \$1,350 installing a gasoline motor haulage in their Muren Mine.

The Consolidated Indiana Coal Company installed motor haulage at a cost of \$7,500 in their No. 33 Mine, Sullivan County.

The Dering Coal Company installed a new Stevens ventilating fan and motor haulage in the Dering No. 14 Mine, Sullivan County, for which they expended \$5,800.

The Hudson Coal Company, Sullivan County, expended \$2,000 in general repair work in their Hudson Mine.

The Sullivan County Coal Company, Sullivan County, recurbed the hoisting shaft and made other general improvements at a cost of \$1,540.30 in their Freeman Mine.

The Banner Coal Company, Vanderburgh County, expended \$1,500 on general repair work in their First Avenue Mine.

The Clinton Coal Company, Vermillion County, expended \$3,000 in the purchase of an electric motor, wire and other supplies necessary to install motor haulage in their Crown Hill No. 1 Mine, in addition to \$15,200 expended in the purchase of six new boilers, compressors, fan, etc., at their Nos. 1 and 2 mines.

The Coal Bluff Mining Company expended \$3,128 in sinking and equipping a manway at their Wabash Mine, Vigo County.

The Lower Vein Coal Company, Vigo County, built a wash house and made general repairs in their Lower Vein No. 1 Mine at a cost of \$2,956.

The Big Four Coal Company, Warrick County, expended \$5,500 in the construction of a haulage road to their No. 2 Mine, which is located about one mile from the railroad.

The Dering Coal Company expended \$1,700 in the purchase of a new electric motor for their No. 5 Mine in Vermillion County.

The Coal Bluff Mining Company installed an electric machine plant at their Plymouth No. 1 Mine, Vigo County, but we have been unable to learn the amount of capital invested.

The remainder of the above sum total was expended on improvements of various kinds, such as mine buildings, haulage roads, ropes, cages, etc., and improving the mines in general.

# MINE DIRECTORY.

## CLAY COUNTY.

NAME OF COMPANY.	ADDRESS OF COMPANY.	NAME OF MINE.
Brazil Block Coal Co.	Brazil.	Brazil No. 1.
Brazil Block Coal Co.	Brazil.	Brazil No. 4.
Brazil Block Coal Co.	Brazil.	Brazil No. 7.
Superior Block Coal Co.	Brazil.	Rebstock.
Vandalia Coal Co.	Indianapolis, State Life Bldg.	Vandalia No. 50.
Vandalia Coal Co.	Indianapolis, State Life Bldg.	Vandalia No. 60.
Vandalia Coal Co.	Indianapolis, State Life Bldg.	Vandalia No. 65.
Zellar-McClellan Co.	Brazil.	Superior No. 4.
Crawford Coal Co.	Brazil.	Crawford No. 2.
Crawford Coal Co.	Brazil.	Crawford No. 6.
Crawford Coal Co.	Brazil.	Crawford No. 8.
Crawford Coal Co.	Brazil.	Crawford No. 9.
Collins Coal Co.	Brazil.	Gifford No. 1.
Collins Coal Co.	Brazil.	Gifford No. 2.
Coal Bluff Mining Co.	Terre Haute.	Glenn No. 1.
Coal Bluff Mining Co.	Terre Haute.	Plymouth No. 2.
American Clay Manufacturing Co.	Brazil.	Monarch.
Big Vein Mining Co.	Terre Haute.	Lewis.
Vivian Colliers Co.	Chicago, Ill.	Vivian No. 1.
Vivian Colliers Co.	Chicago, Ill.	Vivian No. 2.
Progressive Coal & Mining Co.	Brazil.	Progressive.
Jasonville Coal Co.	Jasonville.	Gold Knob.
Eureka Block Coal Co.	Brazil.	Eureka No. 5.
McLaughlin & Treager.	Brazil.	Treager.
C. Ehrlich Coal Co.	Turner.	Klondyke No. 2.
The Clay Product Co.	Brazil.	Fortner.
The Clay Product Co.	Brazil.	Continental.
Lower Vein Block Coal Co.	Brazil.	Lower Vein No. 1.
United Fourth Vein Coal Co.	Linton.	Island Valley No. 4.
Harrison Coal & Mining Co.	Clay City.	Harrison No. 4.
Nick Schefferman.	Brazil.	Schefferman.
Hall & Zimmerman.	Brazil.	Wizard.
Crawford Coal Co.	Brazil.	Crawford No. 10.
Sam Pyrah.	Brazil.	Pyrah.
Raccoon Mining Co.	West Terre Haute.	Raccoon.

## DAVIESS COUNTY.

Stucky & Osborn.	Raglesville.	Stucky.
Davies County Coal Co.	Montgomery.	Montgomery No. 3.
Mutual Mining Co.	Cannelburg.	Mutual.
Mandabach Bros.	Washington.	Mandabach.
Overton Coal Co.	Raglesville.	Overton.
Winklepeck & Overton.	Raglesville.	Winklepeck.

## FOUNTAIN COUNTY.

Rush Coal Co.	Toledo.	Indio.
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## MINE DIRECTORY—Continued.

## GREENE COUNTY.

NAME OF COMPANY.	ADDRESS OF COMPANY.	NAME OF MINE.
United Fourth Vein Coal Co.	Linton.	North Linton.
United Fourth Vein Coal Co.	Linton.	Sponsler.
United Fourth Vein Coal Co.	Linton.	Black Creek.
United Fourth Vein Coal Co.	Linton.	Dickarson.
United Fourth Vein Coal Co.	Linton.	Antioch.
Vandalia Coal Co.	Indianapolis, State Life Bldg.	Vandalia No. 2.
Vandalia Coal Co.	Indianapolis, State Life Bldg.	Vandalia No. 3.
Vandalia Coal Co.	Indianapolis, State Life Bldg.	Vandalia No. 4.
Vandalia Coal Co.	Indianapolis, State Life Bldg.	Vandalia No. 5.
Vandalia Coal Co.	Indianapolis, State Life Bldg.	Vandalia No. 6.
Vandalia Coal Co.	Indianapolis, State Life Bldg.	Vandalia No. 8.
Vandalia Coal Co.	Indianapolis, State Life Bldg.	Vandalia No. 9.
Vandalia Coal Co.	Indianapolis, State Life Bldg.	Vandalia No. 21.
Southern Indiana Coal Co.	Chicago, Ill., Old Colony Bldg.	Hoosier No. 1.
Southern Indiana Coal Co.	Chicago, Ill., Old Colony Bldg.	Tower Hill.
Southern Indiana Coal Co.	Chicago, Ill., Old Colony Bldg.	Lattas Creek.
Indiana Southern Coal Co.	Chicago, Ill., Old Colony Bldg.	Gilmour.
Vulcan Coal Co.	Indianapolis.	Vuican.
Summit Coal & Mining Co.	Bloomfield.	Summit No. 2.
Green Valley Coal Co.	Jasonville.	Green Valley.
Queen Coal & Mining Co.	Jasonville.	Queen.
Letsinger Coal Co.	Terre Haute.	Letsinger.
Calora Coal Co.	Indianapolis, Terminal Bldg.	North West.
Coal Bluff Mining Co.	Terre Haute.	Twin No. 4.
Coal Bluff Mining Co.	Terre Haute.	Twin No. 5.
Midvale Coal Co.	Midland.	Midvale.
Mooney, Donnelly & Keers.	Linton.	Mooney.

## GIBSON COUNTY.

Princeton Coal & Mining Co.	Princeton.	Oswald.
Peacock Coal & Mining Co.	Oakland City.	Massey.
Fort Branch Coal & Mining Co.	Fort Branch.	Fort Branch.

## KNOX COUNTY.

Bicknell Coal Co.	Bicknell.	Bicknell.
Freeman Coal Co.	Bicknell.	Freeman.
Knox Coal Co.	Bicknell.	Knox.
Lynn Coal Co.	Bicknell.	Lynn.
Washington-Wheatland Coal Co.	Washington.	Wheatland.
Chicago & Big Muddy Coal Co.	Bicknell.	Pine Knot.
Tecumseh Coal & Mining Co.	Bicknell.	Tecumseh.

## PARKE COUNTY.

Bridgeton Mining Company.	Bridgeton.	Bridgeton No. 1.
Brazil Block Coal Co.	Brazil.	Brazil No. 9.
Brazil Block Coal Co.	Brazil.	Brazil No. 12.
United Coal & Mining Co.	Mecca.	Mecca No. 3.
Otter Creek Coal Co.	Chicago, Ill.	Mary.
Zellar-McClellan & Co.	Brazil.	Superior No. 1.
Zellar-McClellan & Co.	Brazil.	Superior No. 2.
Zellar-McClellan & Co.	Brazil.	Superior No. 3.
Zellar-McClellan & Co.	Brazil.	Superior No. 5.
Vandalia Coal Co.	Indianapolis, State Life Bldg.	Vandalia No. 316.
Parke County Coal Co.	Rosedale.	Parke No. 11.
W. P. Harrison.	Rockville.	Harrison.
Vivian Collieries Co.	Chicago.	Lyford No. 1.
James Moore.	Kingman.	Moore.
Wm. Moore.	Kingman.	Moore.

## MINE DIRECTORY—Continued.

## PERRY COUNTY.

NAME OF COMPANY.	ADDRESS OF COMPANY.	NAME OF MINE.
Bergenroth Bros.....	Troy.....	Troy.

## PIKE COUNTY.

Ayrshire Coal Co.....	Oakland City.....	Ayrshire No. 3.
Ayrshire Coal Co.....	Oakland City.....	Ayrshire No. 4.
Ayrshire Coal Co.....	Oakland City.....	Ayrshire No. 5.
Central Indiana Coal & Mining Co.....	St. Louis, Mo.....	Carbon.
S. W. Little Coal Co.....	Evansville.....	Rogers.
S. W. Little Coal Co.....	Evansville.....	Blackburn.
S. W. Little Coal Co.....	Evansville.....	Littles.
Muncie Coal & Mining Co.....	Muncie.....	Petersburg.
Winslow Gas Coal Co.....	Winslow.....	Winslow No. 4.
Winslow Gas Coal Co.....	Winslow.....	Winslow No. 5.
Central Indiana Coal & Mining Co.....	St. Louis Mo.....	Aberdeen.
S. W. Little Coal Co.....	Evansville.....	Blackburn No. 2.
Binghamton Trust Co.....	Hartwell.....	Hartwell No. 1.
Binghamton Trust Co.....	Hartwell.....	Hartwell No. 2.

## SULLIVAN COUNTY.

Indiana Southern Coal Co.....	Chicago, Ill. Old Colony Bldg.....	Washington.
Indiana Southern Coal Co.....	Chicago, Ill. Old Colony Bldg.....	Rainbow.
Indiana Southern Coal Co.....	Chicago, Ill. Old Colony Bldg.....	Phoenix No. 4.
Indiana Souehtrn Coal Co.....	Chicago, Ill. Old Colony Bldg.....	Cummings.
Indiana Southern Coal Co.....	Chicago, Ill. Old Colony Bldg.....	Hocking.
Indiana Southern Coal Co.....	Chicago, Ill. Old Colony Bldg.....	Citizens.
Sunflower Coal Co.....	Dugger.....	Sunflower.
Consolidated Indiana Coal Co.....	Chicago, Ill. Old Colony Bldg.....	Consolidated No. 25.
Consolidated Indiana Coal Co.....	Chicago, Ill. Old Colony Bldg.....	Consolidated No. 26.
Consolidated Indiana Coal Co.....	Chicago, Ill. Old Colony Bldg.....	Consolidated No. 28.
Consolidated Indiana Coal Co.....	Chicago, Ill. Old Colony Bldg.....	Consolidated No. 30.
Consolidated Indiana Coal Co.....	Chicago, Ill. Old Colony Bldg.....	Consolidated No. 32.
Consolidated Indiana Coal Co.....	Chicago, Ill. Old Colony Bldg.....	Consolidated No. 33.
Vandalia Coal Co.....	Indianapolis.....	Vandalia No. 10.
Vandalia Coal Co.....	Indianapolis.....	West Linton.
Jackson Hill Coal & Coke Co.....	Terre Haute, Opera Block.....	Jackson Hill No. 2.
Jackson Hill Coal & Coke Co.....	Terre Haute, Opera Block.....	Jackson Hill No. 4.
C. C. Heison.....	Shelburn.....	Keystone.
Sullivan County Coal Co.....	Terre Haute.....	Freeman.
Dering Coal Co.....	Chicago, Ill. Old Colony Bldg.....	Dering No. 12.
Dering Coal Co.....	Chicago, Ill. Old Colony Bldg.....	Dering No. 13.
Dering Coal Co.....	Chicago, Ill. Old Colony Bldg.....	Dering No. 14.
Southern Indiana Coal Co.....	Chicago, Ill. Old Colony Bldg.....	Semi-Block.
Southern Indiana Coal Co.....	Chicago, Ill. Old Colony Bldg.....	Mammoth Vein.
Shirley Hill Coal Co.....	Indianapolis, Terminal Bldg.....	Shirley Hill No. 1.
Shirley Hill Coal Co.....	Indianapolis, Terminal Bldg.....	Little Giant.
Hudson Coal & Mining Co.....	Farmersburg.....	Hudson.
Kettle Creek Coal Co.....	Terre Haute.....	Pearl.
Peabody-Alwart Coal & Mining Company.....	Chicago, Ill.....	Reliance.
Diamond Coal & Mining Co.....	Chicago, Ill.....	Hamilton.
United Fourth Vein Coal Co.....	Linton.....	Black Hawk.
Shirley Hill Coal Co.....	Indianapolis, Terminal Bldg.....	Clover Leaf.
Shirley Hill Coal Co.....	Indianapolis, Terminal Bldg.....	Shirley Hill No. 3.
Carlisle Coal & Clay Co.....	Carlisle, Ind.....	Viola.

## VANDERBURGH COUNTY.

Diamond Coal Co.....	Evansville.....	Diamond.
D. Ingle Coal Co.....	Evansville.....	Ingleside.
Sunnyside Coal Co.....	Evansville.....	Sunnyside.
Crescent Coal Co.....	Evansville.....	Unity.
Banner Coal Co.....	Evansville.....	First Avenue.

MINE DIRECTORY—Continued.  
VERMILLION COUNTY.

NAME OF COMPANY.	ADDRESS OF COMPANY.	NAME OF MINE.
Dering Coal Co.....	Chicago, Ill., Old Colony Bldg.....	Dering No. 5.
Dering Coal Co.....	Chicago, Ill., Old Colony Bldg.....	Dering No. 7.
Dering Coal Co.....	Chicago, Ill., Old Colony Bldg.....	Dering No. 8.
Dering Coal Co.....	Chicago, Ill., Old Colony Bldg.....	Dering No. 15.
Cayuga Brick & Coal Co.....	Cayuga.....	Eureka.
Clinton Coal Co.....	Clinton.....	Crown Hill No. 1.
Clinton Coal Co.....	Clinton.....	Crown Hill No. 2.
Oak Hill Coal Co.....	Clinton.....	Oak Hill.
Oak Hill Coal Co.....	Clinton.....	Maple Valley.
Oak Hill Coal Co.....	Clinton.....	Buckeye No. 2.
Clinton Coal Co.....	Clinton.....	Crown Hill No. 3.

VIGO COUNTY.

Coal Bluff Mining Co.....	Terre Haute.....	Lawton.
Coal Bluff Mining Co.....	Terre Haute.....	Plymouth No. 1.
Coal Bluff Mining Co.....	Terre Haute.....	Victor.
Coal Bluff Mining Co.....	Terre Haute.....	Wabash.
Lower Vein Coal Co.....	Terre Haute.....	Lower Vein No. 1.
Vandalia Coal Co.....	Indianapolis.....	Vandalia No. 67.
Vandalia Coal Co.....	Indianapolis.....	Vandalia No. 69.
Miami Coal Co.....	Brazil.....	Miami No. 1.
Miami Coal Co.....	Brazil.....	Miami No. 2.
Miami Coal Co.....	Brazil.....	Miami No. 3.
Parke County Coal Co.....	Rosedale.....	Parke No. 10.
Fauvre Coal Co.....	Indianapolis.....	Fauvre No. 1.
Fauvre Coal Co.....	Indianapolis.....	Fauvre No. 2.
West Terre Haute Coal Co.....	W. Terre Haute.....	Larimer.
Deep Vein Coal Co.....	Terre Haute.....	Deep Vein.
Vigo County Coal Co.....	Seeleyville.....	Ray No. 2.
Indiana Southern Coal Co.....	Chicago, Ill.....	Forest.
Domestic Block Coal Co.....	Kokomo.....	Domestic Block No. 1.
Chas. F. Keeler Coal Co.....	Chicago, Ill.....	Atherton.
M. D. West Coal Co.....	Cloverland.....	Chicago No. 6.
Grant Coal & Mining Co.....	Burnett.....	Grant No. 2.
Sugar Valley Coal Co.....	West Terre Haute.....	Sugar Valley.
Dering Coal Co.....	Terre Haute.....	Dering No. 6.
Coal Bluff Mining Co.....	Terre Haute.....	Minshall.

WARRICK COUNTY.

Big Four Coal Co.....	Boonville.....	Big Four.
Chandler Coal Co.....	Evansville.....	Chandler.
John Archibald Coal Co.....	Evansville.....	Star No. 1.
Chas. Menden Coal Co.....	Evansville.....	DeForest.
T. D. Scales Coal Co.....	Boonville.....	Electric.
Caladonia Coal Co.....	Boonville.....	Dawson.
Erie Canal Coal Co.....	Boonville.....	Frie Canal.
J. Wooley Coal Co.....	Boonville.....	Castle Garden.
Worsham-Newburg Coal Co.....	Newburg.....	Bizius.
Elberfeld Oil, Gas & Mining Co.....	Elberfeld.....	Elberfeld.
Epworth Coal Co.....	Newburg.....	